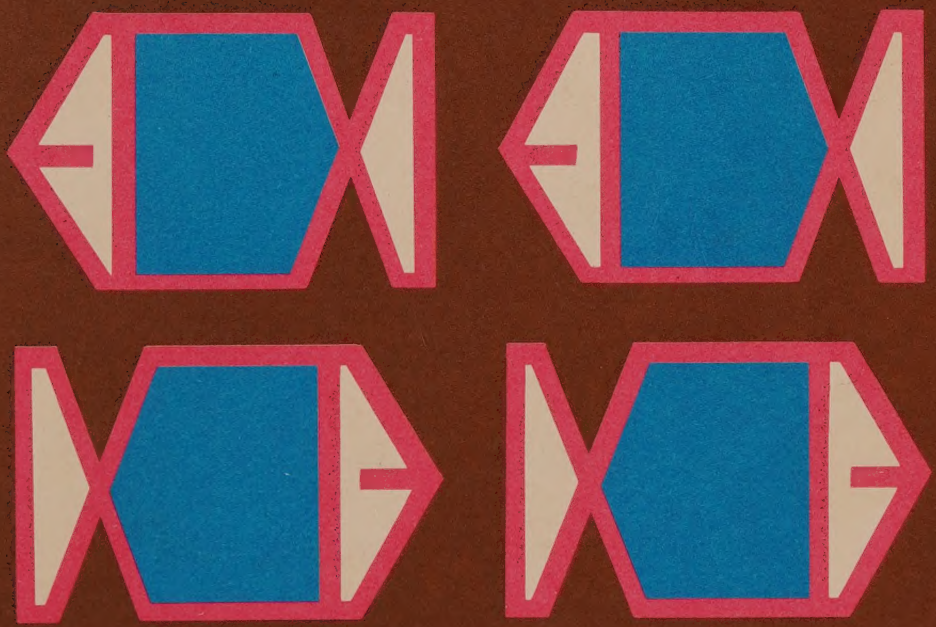
1974

1974

A

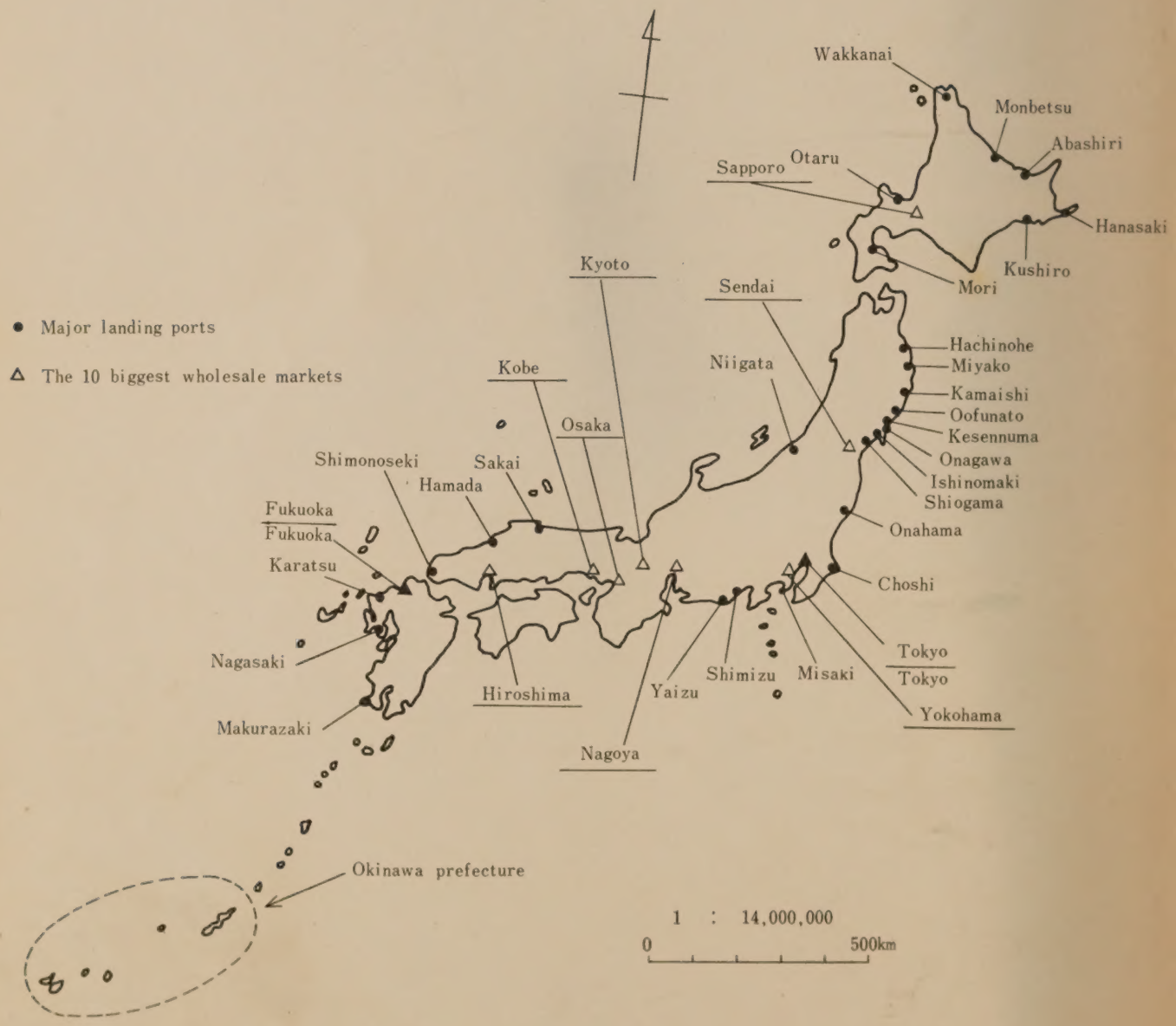
FISHERIES STATISTICS OF JAPAN 1974



STATISTICS AND INFORMATION DEPARTMENT
MINISTRY OF AGRICULTURE AND FORESTRY
GOVERNMENT OF JAPAN

MAJOR LANDING PORTS AND THE 10 BIGGEST

WHOLESALE MARKETS IN JAPAN



FISHERIES STATISTICS OF JAPAN 1974

STATISTICS AND INFORMATION DEPARTMENT
MINISTRY OF AGRICULTURE AND FORESTRY
GOVERNMENT OF JAPAN

Edited and published by
Statistics and Information Department
Ministry of Agriculture and Forestry
1 -2 -1, Kasumigaseki, Chiyoda-ku
Tokyo, Japan

FOREWORD

This bulletin "The Fisheries Statistics of Japan" has been published yearly since 1963 by the Statistics and Information Department, Ministry of Agriculture and Forestry to give a general view to all foreign people who are interested in the current fishery situation of Japan.

Most of the statistics in this publication are extracted from the Report on Catch Survey of Fisheries and Aquacultures, Annual Survey of Fishery Establishments, Marketing Survey of Fishery Products and Fisheries Economy Survey in 1974 Which were published by the Department.

Illustrations of marine fishing gears and important fish species in Japan are shown in the last pages with their English, Japanese and scientific names for better understanding of the readers.

I hope this publication will be useful to the foreign readers who wish to obtain a real picture of Japanese fisheries.

March, 1976

A Arimatsu

Akira Arimatsu
Director
Statistics and Information Department
Ministry of Agriculture and Forestry
Government of Japan

CONTENTS

EXPLANATORY NOTES

STATISTICAL CHARTS Page

I. FISHERIES PRODUCTION

1. Annual Trend of Total Catch, 1930-1974 2
2. Total Catch by Type of Fisheries, 1956-1974 2
3. Indices of Fishery Production(1970=100),1964-1974 2
4. Catch of Major Type of Fisheries, 1974 3
5. Catch of Major Fish, 1974 3
6. Catch by Major Fish, 1956-1974 4
7. Yield of Marine Cultures, 1964-1974 4
8. Catch of Major Inland Water Fish,1964-1974 5
9. Catch of Major Inland Water Culture Fish, 1964-1974 5
10. Catch of the World by Country, 1964-1974 5

II. STUCTURE OF FISHERY PRODUCTION

1. Number of Marine Fisheries Establishments, 1974 6
2. Number of Marine Fishery Workers, 1974 6
3. Number of Fishing Boats, 1964-1974 7
4. Number of Fishing Boats, 1974 7

III .MARKETING OF FISHERY PRODUCT

1. Supply of Fishery Products, 1964-1974 8
2. Price Index of Fishery Products (1970=100), 1964-1974 ... 8
3. Fishery Processing Products, 1964-1974 9
4. Volume Transacted by Group of Commodity in Six Large Central Wholesale Markets, 1964-1974 9
5. Disposition of Fishery Products, 1964-1974 10
6. Exports and Inports of Fishery products, 1964-1974 11
7. Imports of Fishery Products, 1974 10
8. Exports of Fishery Products, 1974 11

IV. ECONOMY OF FISHERY MANAGEMENT UNIT

1. Economy of Fishery Household(Average per Household),1964-1974 12
2. Economy of Middle and Small Size Fishery Enterprise (Average per Enterprise), 1964-1974 12

STATISCAL TABLES

I. FISHERIES PRODUCTION

Page

1. Summary of Catch by Fishery Sector,1940-1974 14
2, Summary of Catch by Species,1940-1974 15
3, Catch in Quantity by Species, 1970-1974 16
4, Catch in Value by species,1970-1974 18
5. Catch in Quantity by Fishery Type, 1970-1974 20
6. Catch in Value by Fishery Type, 1970-1974 21
7. Catch by Major Species and by Fishery Type, 1970-1974 ..22

II . STUCTURE OF FISHERY PRODUCTION

1. Number of Marine Fishery Establishments,1970-1974 26
2. Number of Marine Fishery Workers,1970-1974 26
3. Number of Fishing Boats, 1970-1974 27
4. Gross Tonnages of Fishing Boats, 1970-1974 27

III . MARKETING OF FISHERY PRODUCT

1. Quantity and Price of Landings by Commodity at Fish Markets in Producing Areas, 1974 28
2. Quantity and Price of Arrivals by Commodity at Tokyo Central Wholesal Markets, 1974 30
3. Price of Major Fishery Products by Steps of Sale Distribution in Large Consuming Cities,1974 31
4. Processed Fishery Products, 1970-1974 32
5. Value of Imports and Exports by Commodity 1963-1974 34
6. Value of Imports and Exports by Country, 1963-1974 36
7. Value of Imports and Exports of Fishery Products (by Country, and by Commodity), 1974 38
8. Food Balance Sheet on Fishery Products, 1970-1974 40
9. Average Consumption in Quantity of Fishery Products per Household, 1970-1974 42
10. Average Consumption in value of fishery products per Household, 1970-1974 44

IV. ECONOMY OF FISHERY MANAGEMENT UNIT

1. National Average of Fisheries Household Economy, 1970-1974..46
2. National Average of Middle and Small Size Fisheries

Page

Enterprize Economy, 1970-1974 47

REFERENCE TABLES

1. Indices of Fishery Production, 1970-1974 50
2. Catch by Country of the World, 1970-1974 51
3. Catch by Species of the World, 1970-1974 52

APPENDIX

1. Classification of Marine Fishery Type 54
2. Illustration of Important Fishes in Japan 64

EXPLANATORY NOTES

1. Sources of statistics

Table No. 1-10, 12 17(B),18(B)	Statistics and Information Department, Ministry of Agriculture and Forestry
Table No. 11,12,20	Fishery Agency, Ministry of Agriculture and forestry.
Table No. 17-19	Customs Division, Ministry of Finance
Table No.21(A),22(A)	Bureau of Statistics, Office of the Prime Minister.
Reference Table 1,2	F.A.O.

2. Period of inquisition

As a principle, the statistics in this bulletin are inquired by the Calendar year but the figures of the whaling in the Antarctic Ocean are given for the "Whaling year" (from Nov. 1973 to Mar. 1974.)

3. Symbols

(0) Means "Less than the unit amount"

(---) Means "Unknown or not available"

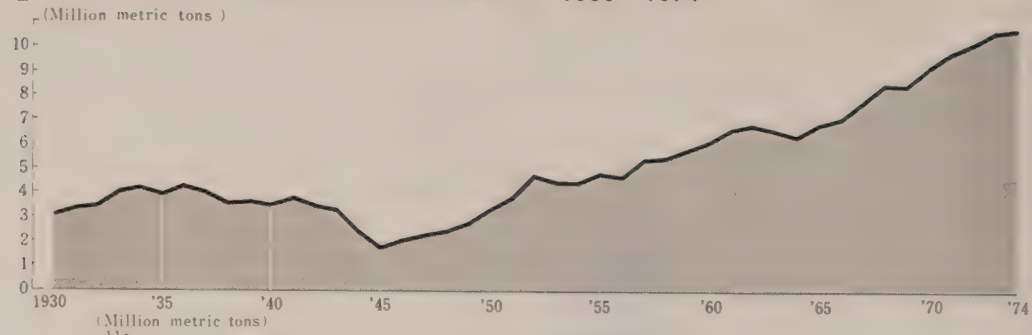
(-) Means "No record"

(Δ) Means "Minus"

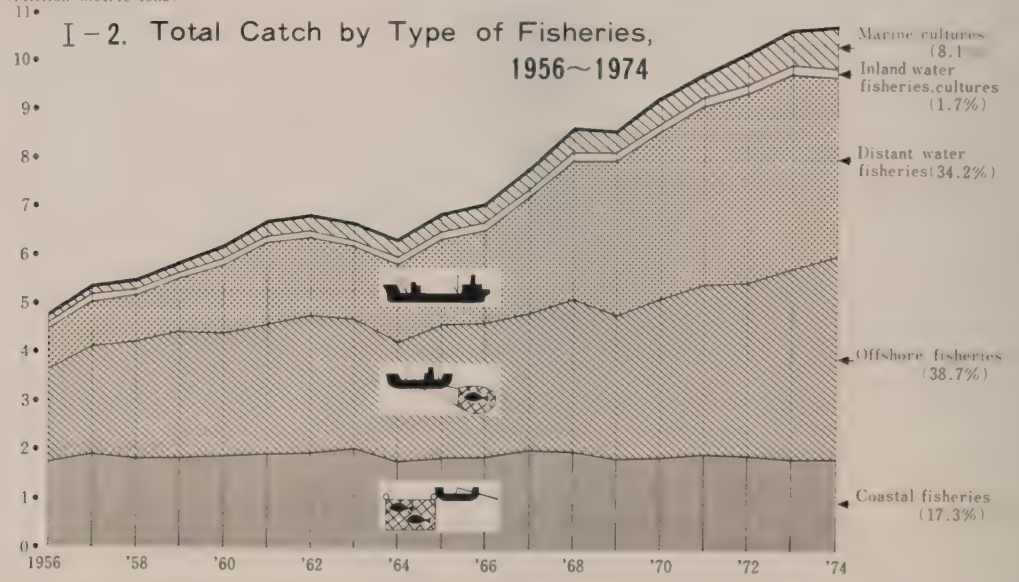
STATISTICAL CHARTS

I. FISHERIES PRODUCTION

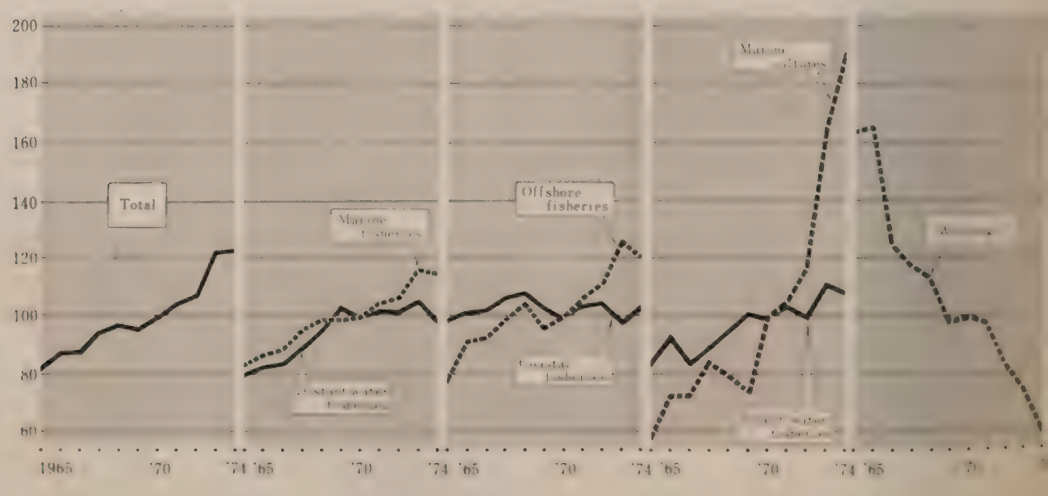
I-1. Annual Trend of Total Catch 1930~1974



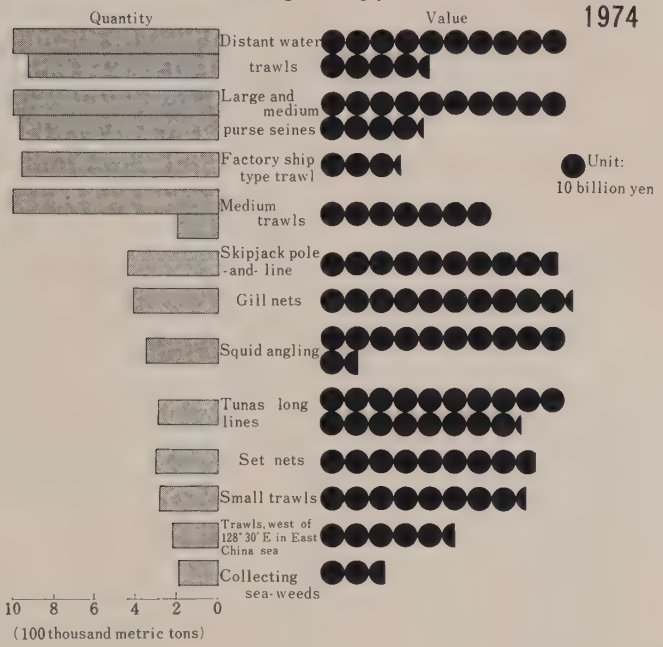
I-2. Total Catch by Type of Fisheries, 1956~1974



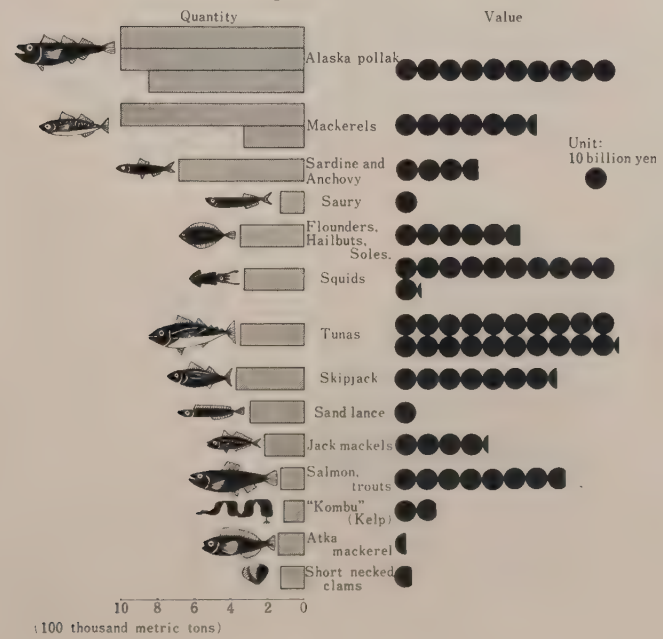
I-3. Indices of Fishery Production (1970=100)、1964~1974



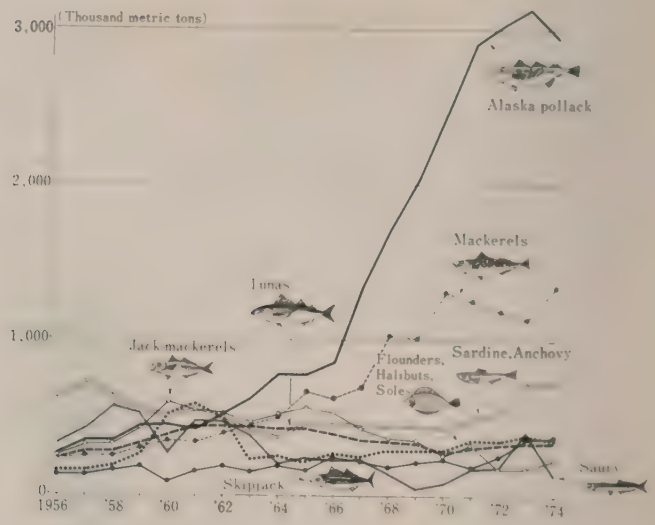
I－4. Catch of Major Type of Fisheries, 1974



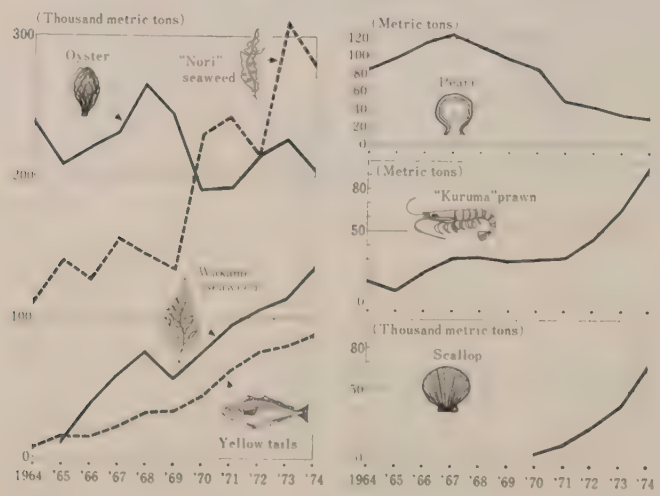
I－5. Catch of Major Fish, 1974



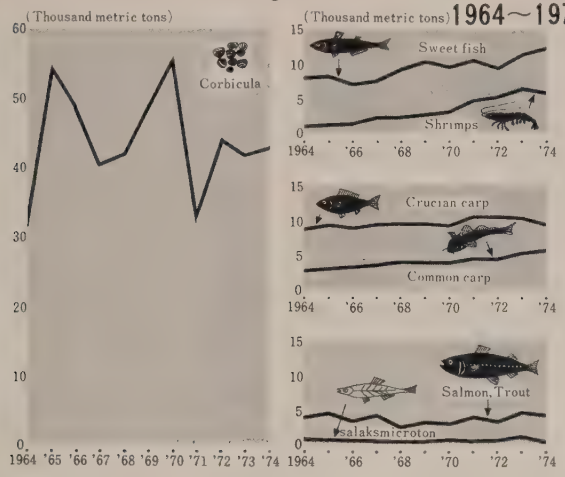
I－6. Catch by Major Fish 1956～1974



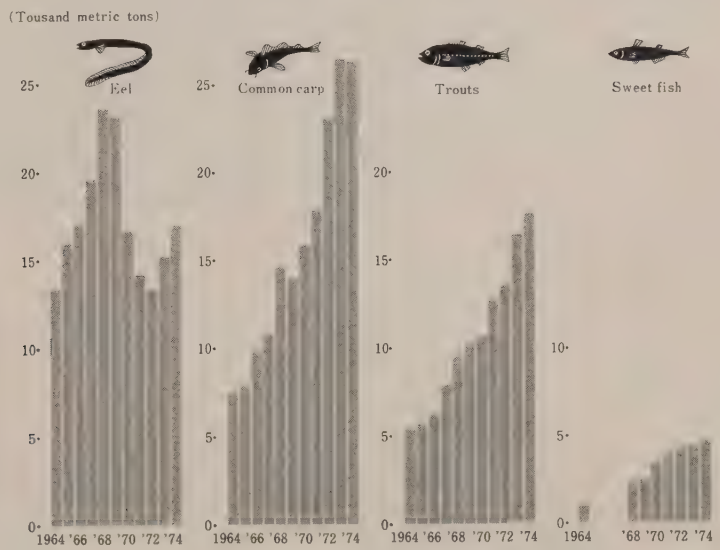
I－7. Yield of Marine Cultures 1964～1974



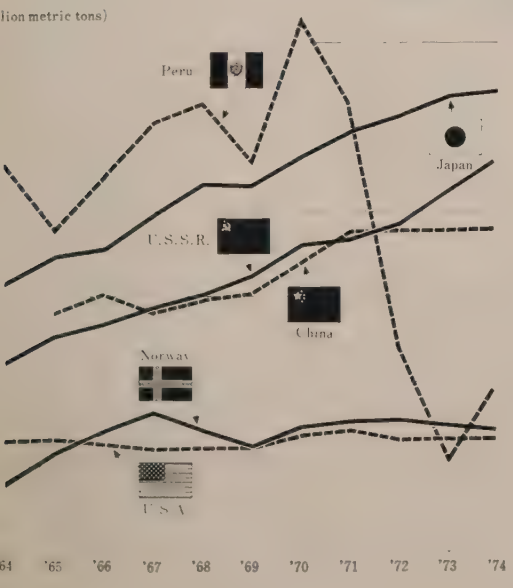
I－8. Catch of Major Inland Water Fish, 1964～1974



I－9. Catch of Major Inland Water Culture Fish, 1964～1974

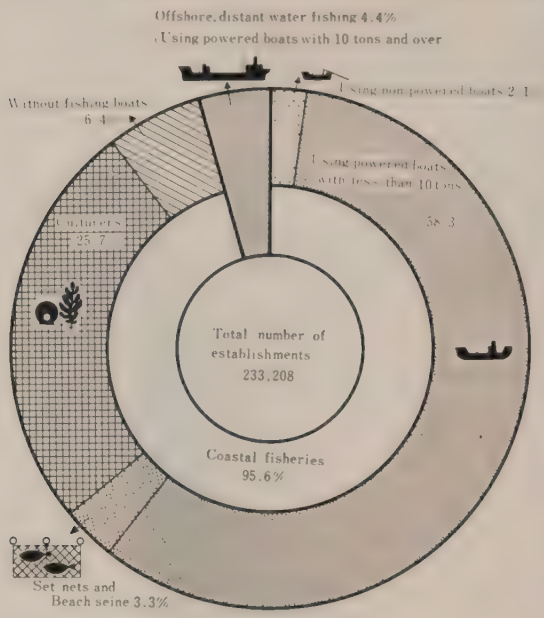


-10. Catch of the World by Country 1964－1974

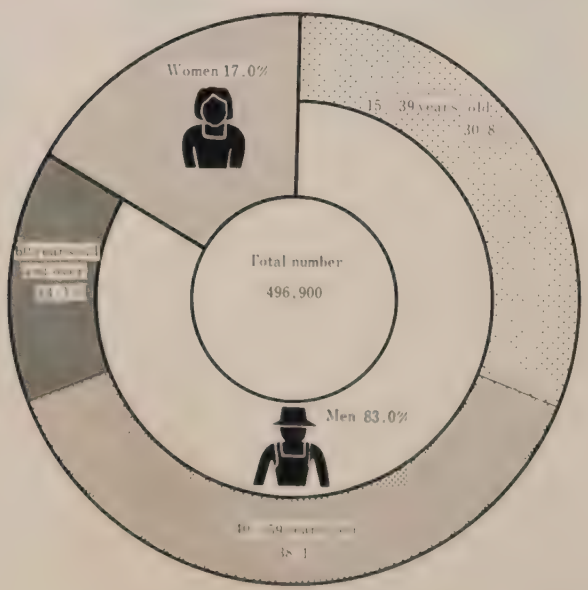


Ⅱ. STRUCTURE OF FISHERY PRODUCTION

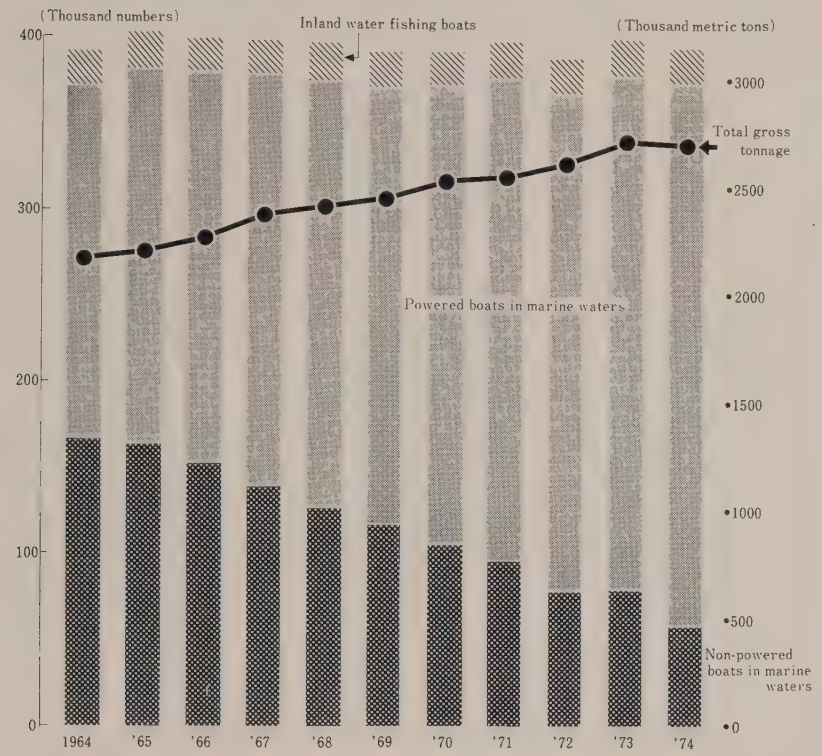
Ⅱ-1. Number of Marine Fisheries Establishments, 1974



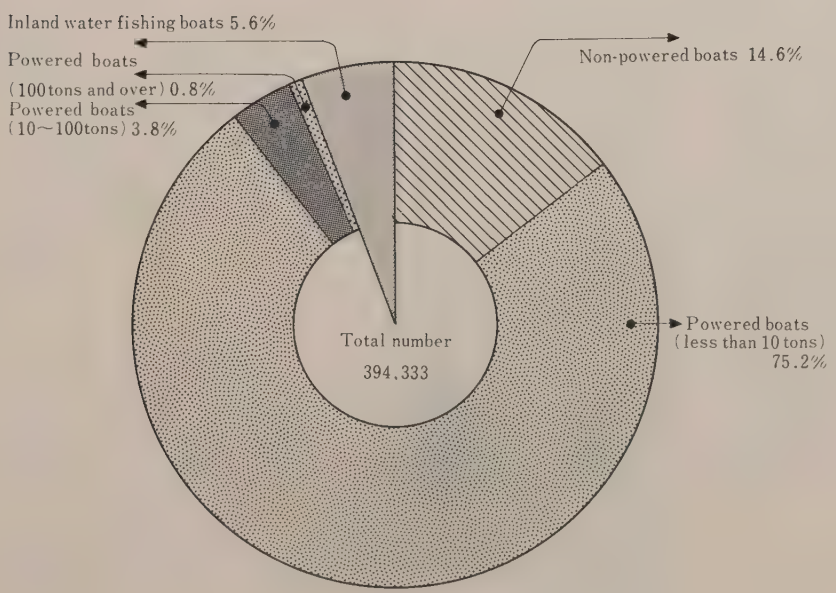
Ⅱ-2. Number of Marine Fishery Workers, 1974



Ⅱ-3. Number of Fishing Boats 1964～1974

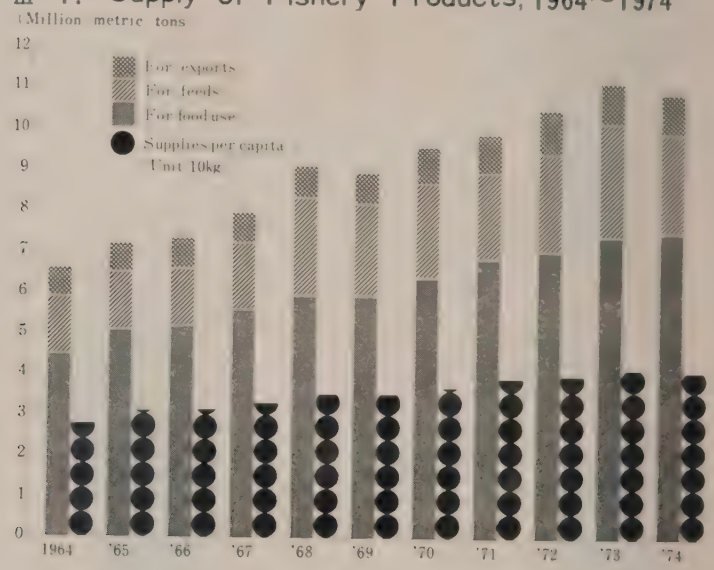


Ⅱ-4. Number of Fishing Boats, 1974

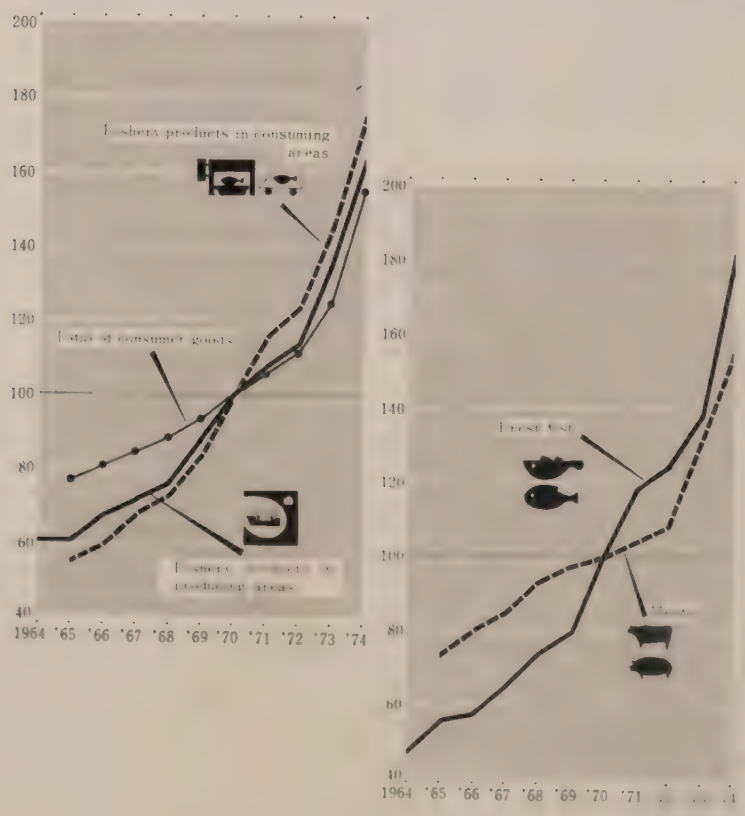

Inland water fishing boats 5.6%
Powered boats (100tons and over) 0.8%
Powered boats (10～100tons) 3.8%
Non-powered boats 14.6%
Powered boats (less than 10 tons) 75.2%
Total number
394,333

Ⅲ. MARKETING OF FISHERY PRODUCT

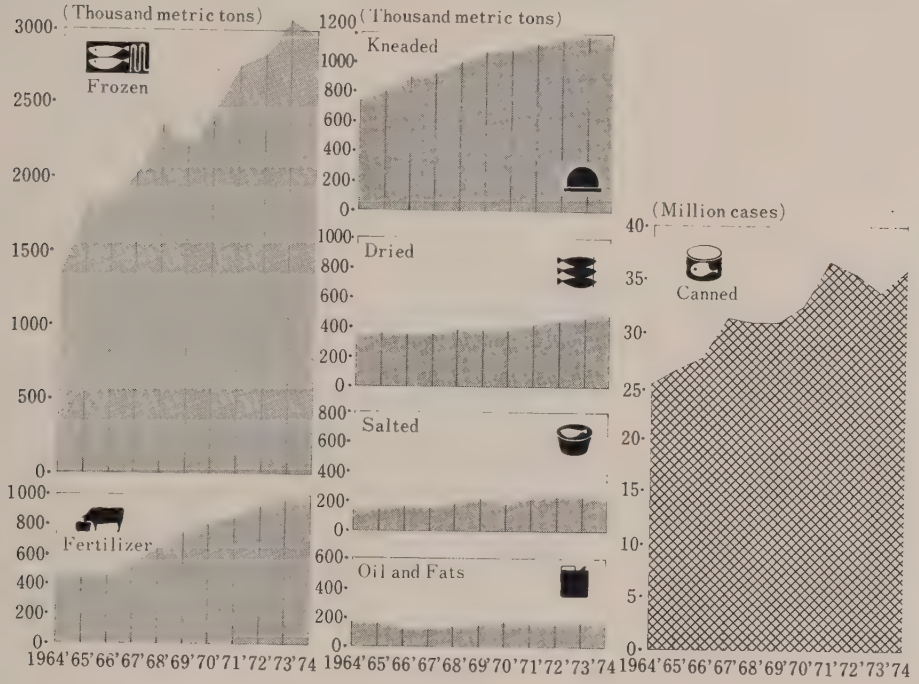
Ⅲ-1. Supply of Fishery Products, 1964～1974



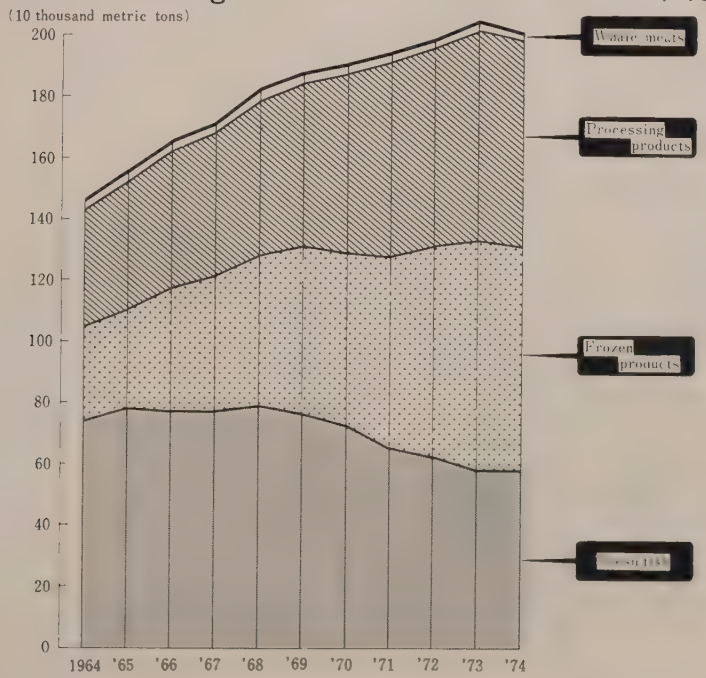
Ⅲ-2. Price Index of Fishery Products (1970=100)



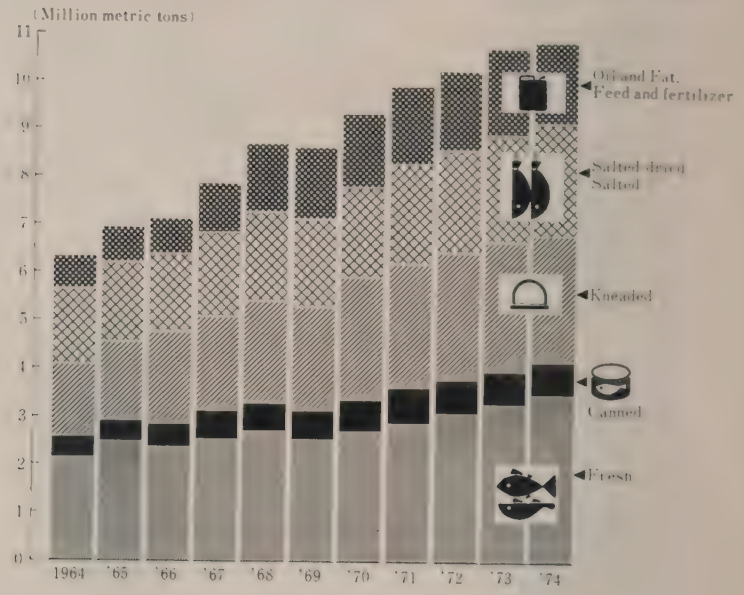
Ⅲ−3. Fishery Processing Products, 1964～1974



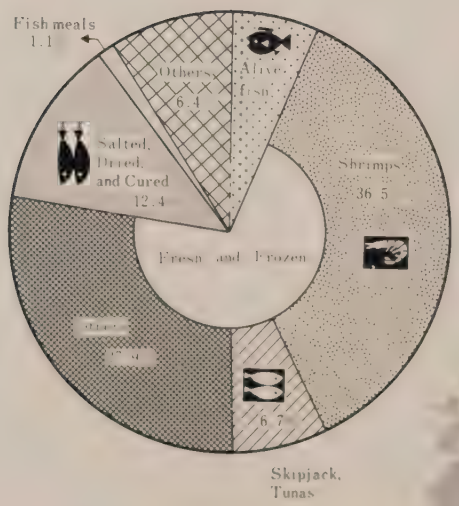
Ⅲ−4. Volume Transacted by Group of Commodity in Six Large Central Wholesale Markets, 1964～1974

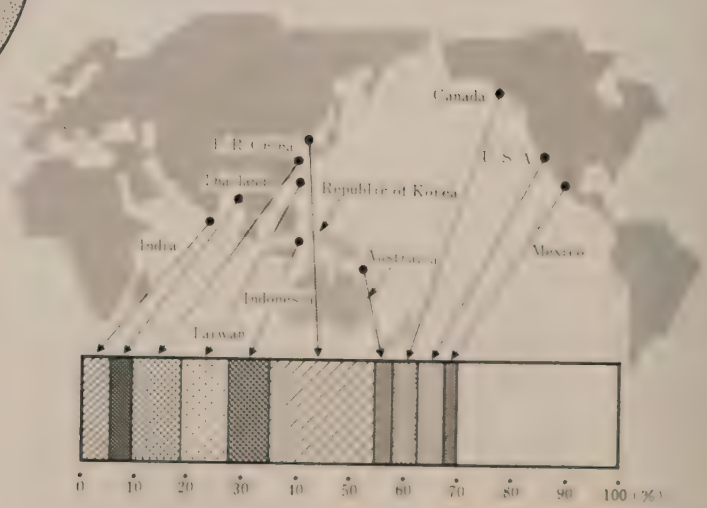


Ⅲ－5. Disposition of Fishery, Products 1964～1974

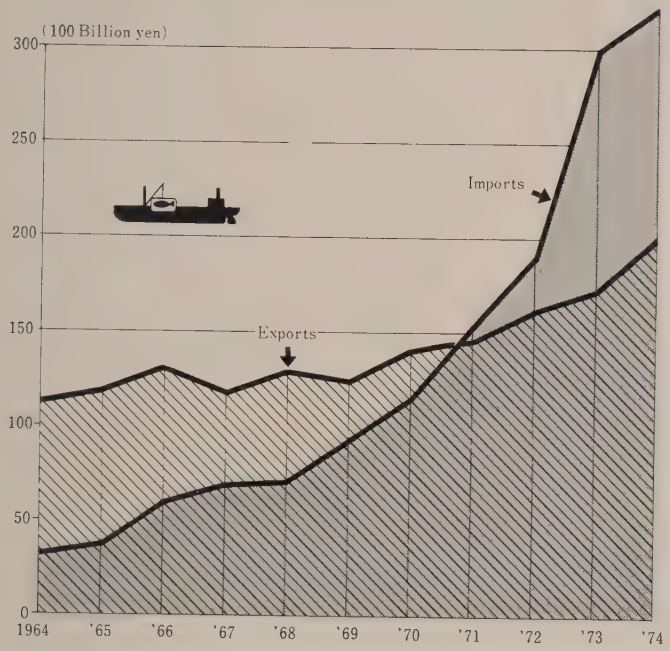


Ⅲ－7. Imports of Fishery Products 1974

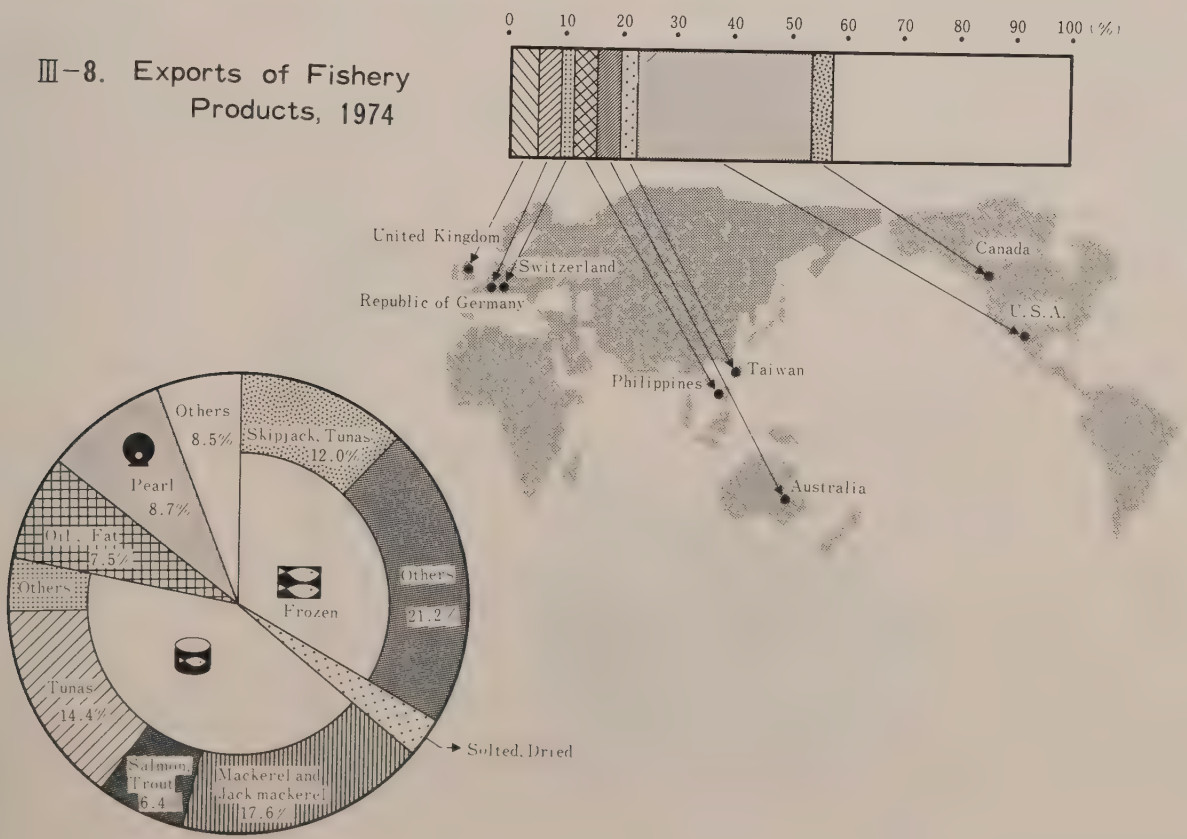




Ⅲ－6. Exports and Imports of Fishery Products, 1964～1974

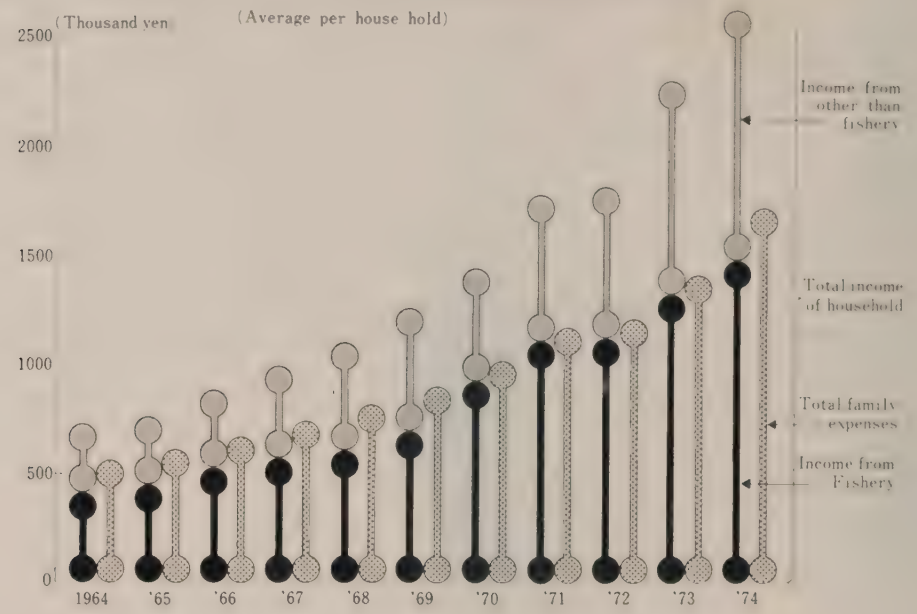


Ⅲ－8. Exports of Fishery Products, 1974

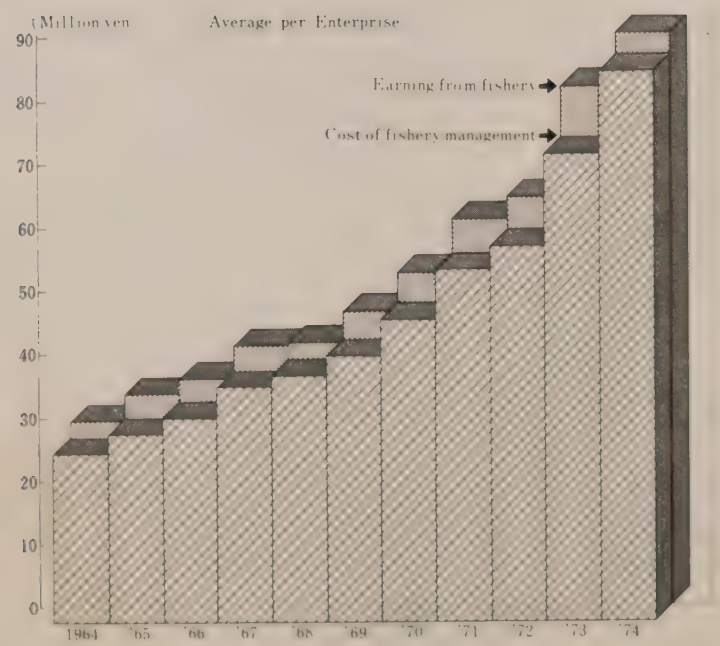


Ⅳ. ECONOMY OF FISHERY MANAGEMENT UNIT

Ⅳ−1. Economy of Fishery Household 1964～1974



Ⅳ−2. Economy of Middle and Small Size Fishery Enterprise, 1964～1974



STATISTICAL TABLES

I. FISHERIES PRODUCTION

I-1. SUMMARY OF CATCH BY FISHERY SECTOR, 1940～1974

Quantity: Thousand metric tons
Value : Hundred million yens

Year	Marine Fisheries		Marine Cultures		Inland Water Fisheries		Inland Water Cultures		Total		Whalings	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Numbers	Value
1940	3,427	---	78	---	---	---	19	---	3 526	---	9,628	---
1945	1,750	---	61	---	---	---	12	---	1,824	---	531	---
1950	3.255	---	48	---	63	---	5	---	3,373	---	5,332	---
1951	3,774	---	88	---	60	---	6	---	3,930	---	6,335	---
1952	4,646	---	113	---	53	---	9	---	4,823	---	7,816	---
1953	4,387	---	144	---	57	---	8	---	4,598	---	6,631	---
1954	4,304	---	145	---	82	---	9	---	4,541	---	9,591	---
1955	4,653	---	154	---	82	---	11	---	4,907	---	11,866	---
1956	4,488	2,012	180	206	90	62	13	30	4,772	2,310	14,124	160
1957	5,067	2,303	244	174	81	73	14	31	5,407	2,582	15,439	213
1958	5,198	2,257	214	205	78	70	15	37	5,506	2,569	19,922	196
1959	5,568	2,535	225	236	75	69	15	36	5,884	2,877	20,527	221
1960	5,817	2,983	284	338	74	80	15	47	6,192	3,448	19,649	234
1961	6,287	3,340	322	455	81	93	18	64	6,710	3,952	20,848	267
1962	6,397	3,567	362	538	84	94	20	68	6,864	4,266	22,240	269
1963	6,200	3,988	389	650	84	98	23	94	6,698	4,830	22,373	309
1964	5,868	4,039	362	724	89	102	29	111	6,350	4,976	24,410	323
1965	6,382	4,516	380	816	113	100	33	126	6,908	5,558	27,006	366
1966	6,558	5,005	405	974	103	118	36	164	7,103	6,260	22,784	290
1967	7,241	5,677	470	1,074	97	109	42	166	7,851	7,026	21,150	252
1968	7,993	6,097	522	1,010	103	119	52	221	8,670	7,447	21,590	237
1969	7,976	6,928	473	1,130	112	144	52	285	8,613	8,488	17,411	221
1970	8,598	7,581	549	1,353	119	170	48	317	9,315	9,692	16,891	272
1971	9,149	8,957	609	1,374	101	214	50	349	9,909	10,894	16,419	314
1972	9,400	9,417	648	1,708	109	231	56	441	10,213	11,796	14,590	264
1973	9,793	11,411	791	2,251	114	298	64	521	10,763	14,482	13,893	273
1974	9,749	13,785	880	2,324	112	348	67	640	10,808	17,097	14,196	327

I-2. SUMMARY OF CATCH BY SPECIES, 1940～1974

Unit: Thousand metric tons

Year	Marine Waters					Inland Waters					Total
	Fishes	Molluscs	Crus-taceans	Aquatic plants	Others	Fishes	Molluscs	Crus-taceans	Aquatic plants	Others	
1940	2,435	441	35	523	---	29	---	---	---	---	3,526
1945	1,222	313	31	228	---	13	---	---	---	---	1,824
1950	2,210	760	49	257	28	32	12	1	23	1	3,373
1951	2,572	922	56	290	22	30	12	1	23	2	3,930
1952	3,268	1,033	72	361	27	35	13	1	12	1	4,823
1953	3,253	889	70	292	27	37	15	1	12	2	4,598
1954	3,239	786	99	287	38	44	14	2	31	1	4,541
1955	3,541	802	106	310	53	52	14	3	25	1	4,907
1956	3,441	774	95	304	52	60	16	3	24	3	4,772
1957	3,877	894	108	402	27	64	24	5	2	4	5,407
1958	4,017	893	119	339	42	62	26	3	1	4	5,506
1959	4,267	1,027	119	337	44	59	26	1	1	4	5,884
1960	4,463	1,078	126	386	51	60	25	1	1	3	6,192
1961	5,015	985	138	425	49	66	28	2	1	3	6,710
1962	4,911	1,158	149	501	41	69	30	2	1	3	6,864
1963	4,653	1,303	159	425	51	72	33	1	1	2	6,698
1964	4,745	925	153	361	48	80	35	1	0	2	6,350
1965	5,093	1,082	132	406	52	86	56	1	0	2	6,908
1966	5,232	1,097	142	436	57	86	50	1	0	2	7,103
1967	5,742	1,225	149	534	60	92	42	2	0	2	7,851
1968	6,340	1,430	186	503	57	104	44	2	1	4	8,670
1969	6,561	1,238	153	444	53	107	51	3	1	3	8,613
1970	7,289	1,132	146	521	59	103	58	3	1	3	9,315
1971	7,913	1,065	126	587	66	107	36	5	1	2	9,909
1972	8,075	1,217	137	559	59	110	46	5	1	2	10,213
1973	8,645	1,130	141	653	64	124	45	6	1	2	10,763
1974	8,543	1,129	170	601	85	126	44	6	1	3	10,808

I -3. CATCH IN QUANTITY

Species	1970	1971	1972	1973	1974
Grand Total 1)	9,314,662	9,908,544	10,213,113	10,762,644	10,807,781
Marine Fisheries 1).....	8,597,761	9,148,746	9,400,020	9,793,029	9,748,599
Fishes.....	7,245,352	7,850,527	7,996,464	8,561,554	8,445,872
Albacore,Tunas.....	291,017	307,965	318,090	341,818	348,950
Marlins swordfishes.....	66,733	52,506	48,357	46,693	48,712
Skipjack,frigate mackerel.....	231,901	191,656	253,936	356,343	373,573
Sharks, rays.....	60,689	51,370	49,632	50,020	46,328
Salmons, trouts.....	117,896	139,299	119,601	136,009	132,531
Herring.....	97,374	100,483	62,918	82,658	76,273
Sardine, round herring.....	40,626	104,555	106,650	337,286	397,848
Anchovy.....	365,471	350,692	369,688	335,425	287,516
Jack mackerel, scad.....	269,311	315,470	193,842	182,720	215,724
Mackerels.....	1,301,918	1,253,892	1,189,910	1,134,503	1,330,625
Saury	93,129	190,288	196,615	406,445	135,462
Yellow tails.....	54,875	48,102	49,738	52,916	40,977
Floundera, halbit.....	295,410	347,697	356,845	388,547	356,749
Cod.....	117,119	95,320	87,604	108,513	108,399
Alaska pollack.....	2,346,710	2,707,443	3,035,285	3,020,870	2,855,896
Ataka mackerel.....	146,516	147,209	180,552	114,986	143,500
Rock fishes.....	87,073	100,314	100,520	111,208	122,963
Croakers.....	64,311	49,878	41,916	45,481	51,773
Hairtail.....	54,855	45,974	49,634	41,592	39,259
Sea breams	38,329	29,383	32,782	30,317	29,497
Spanish macderels.....	19,870	17,444	20,857	14,220	21,149
Sand lance.....	227,077	271,936	194,930	193,994	299,855
Others.....	857,142	931,651	937,282	1,028,990	982,313
Crustaceans.....	145,509	125,666	136,738	140,324	165,513
Spiny lobster.....	1,485	1,334	1,414	1,327	1,289
"Kuruma"prawn.....	1,263	1,983	2,232	2,780	2,653
Other prawns, shrimps.....	52,889	47,834	54,630	58,209	74,981
King crab.....	17,557	10,539	9,650	6,179	5,461
Queen crab.....	53,265	42,352	41,730	33,381	30,066
Other crabs.....	19,050	21,624	27,082	38,448	55,063
Molluscs.....	935,864	860,748	975,978	810,757	855,383
Common squid.....	412,240	364,349	464,365	347,566	335,005
Other squids, Cuttlefishes.....	106,677	118,169	135,085	138,721	134,928
Octopuses.....	94,127	85,507	66,857	63,764	76,731
Abalone.....	6,466	5,659	5,815	5,839	4,971
Short necked clams.....	141,997	126,414	115,613	114,459	137,719
Commom scallop.....	16,477	14,439	23,454	22,208	25,207
"Mogai" clam.....	28,276	59,949	36,059	20,180	36,530
Other clams, Shellfishes.....	127,604	86,262	128,730	98,020	104,292
Echinodermata, etc.....	57,764	64,969	56,653	57,462	77,724
Marine mammals 1).....	1,512	937	1,680	1,714	2,066

BY SPECIES, 1970~1974

Unit: Metric tons

Species	1970	1971	1972	1973	1974
Sea weeds	211,760	245,899	232,507	221,185	198,041
Kelps	110,780	151,725	155,415	130,537	119,405
"Wakame seaweed	45,574	38,480	21,364	26,340	20,098
Others	55,406	55,694	55,728	64,308	58,538
Marine Cultures	549,082	608,684	647,905	790,974	879,761
Yellow tails	43,300	61,743	76,913	80,269	92,685
Pearl	85	49	42	34	30
Oyster	190,799	193,846	217,373	229,899	210,583
"Nori seaweed	231,464	244,946	217,906	311,400	339,314
"Wakame" seaweed	76,360	94,350	105,678	113,211	153,762
Others	7,074	13,750	29,993	56,161	83,387
Inland water Fisheries	119,364	100,716	109,357	114,212	112,329
Salmons, trouts	3,171	3,985	3,554	4,894	4,615
Sweet fish	9,879	10,523	9,716	11,356	12,268
Carps	14,486	15,023	14,898	15,452	15,045
Eel	2,726	2,624	2,418	2,107	2,083
Corbicula	56,144	33,981	44,278	42,934	43,153
Others	32,958	34,580	34,493	37,469	35,165
Inland Water Cultures	48,455	50,398	55,831	64,429	67,099
Trouts	10,632	12,749	13,515	16,425	17,631
Carps	17,256	19,049	24,220	27,786	27,164
Eel	16,730	14,233	13,355	15,247	17,077
Others	3,837	4,367	4,741	4,971	5,227
Whailing 2)	16,887	16,419	14,590	11,801	11,377
Blue whale	-	-	-	-	-
Fin whale	2,416	2,215	1,760	1,441	945
Humpback whale	-	-	-	-	-
Sei whale	7,287	7.114	6,706	4,745	4,571
Sperm whale	6,548	6,465	5,573	5,082	4,579
Mink whale	330	291	354	423	1,185
Bottlenose whale	113	118	86	31	32
Pilot whale	152	181	91	77	62
Others	41	35	20	2	3
(Blue whale Unit)	2,442	2,293	1,998	1,511	1,234

Note: 1) Excluded whale
2) Actual number of catch

I -4. CATCH IN VALUE

Species	1970	1971	1972	1973	1974
Grand total 1)	969,156	1,089,405	1,179,636	1,491,384	1,742,515
Marine Fisheries 1)	785,149	895,728	941,682	1,156,376	1,378,466
Fishes	590,280	656,481	697,528	887,072	1,010,087
Albacore, tunas	99,367	128,144	139,000	176,357	201,976
Marlins, swordfishes	21,464	20,520	20,399	20,482	26,718
Skipjack,frigate mackerel	31,450	33,600	41,767	60,649	74,022
Sharks, rays	3,315	3,054	3,134	3,757	3,743
Salmons, trouts	42,277	44,541	45,073	70,627	78,157
Herring	11,568	9,938	5,653	10,904	9,943
Sardine,round herring	5,781	8,735	8,533	14,620	19,739
Anchovy	14,495	14,033	17,135	18,099	17,966
Jack mackerel, scad	26,378	27,648	27,622	30,041	41,787
Mackerels	36,398	32,864	37,153	42,812	63,885
Saury	12,012	15,891	12,004	25,307	9,989
Yellow tails	19,542	20,162	19,072	23,585	27,380
Flounders, halibut	34,558	37,636	45,875	53,854	57,320
Cod	7,457	7,286	6,708	10,435	12,016
Alaska pollack	53,778	61,338	69,089	91,034	99,566
Ataka mackerel	2,570	2,925	3,558	3,533	4,738
Rock fishes	9,206	11,312	11,301	12,554	15,818
Croakers	6,670	5,396	5,280	5,544	6,814
Hairtail	4,601	4,460	5,480	4,322	4,959
Sea breams	22,339	21,746	26,447	28,736	31,472
Spanish mackerels	3,691	2,757	3,398	3,172	3,750
Sand lance	4,714	6,272	6,025	7,532	9,771
Others	116,647	136,223	137,821	168,616	188,537
Crustaceans	40,909	45,391	55,664	67,585	90,164
Spiny lobster	3,096	2,940	3,573	3,950	4,712
"Kuruma"prawn	3,124	5,112	6,078	7,564	8,546
Other prawns, shrimps	15,019	17,545	23,963	28,353	45,752
King crab	4,769	3,495	3,788	2,557	4,257
Queen crab	10,465	10,915	10,646	13,184	12,243
Other crabs	4,436	5,384	7,616	11,977	14,654
Molluscs	124,878	160,057	154,320	160,973	231,230
Common squid	48,972	78,809	67,908	64,194	111,361
Other squids,cuttlefishes	20,593	27,177	37,458	41,722	50,666
Octopuses	25,369	20,990	15,312	16,545	21,807
Abalone	6,276	6,654	8,149	9,841	10,305
Short necked clam	3,604	3,869	4,704	5,360	8,178
Common scallop	2,621	2,983	3,971	4,136	4,086
"Mogai clam	1,704	4,971	1,360	764	1,662
Other clams,shellfishes	15,739	14,604	15,458	18,411	23,172
Echinodermata, etc	9,030	11,218	11,003	14,529	19,196
Marine mammals 1)	117	135	163	187	330

BY SPECIES, 1970～1974

Unit : Million yen

Species	1970	1971	1972	1973	1974
Sea weeds	19,936	22,444	23,003	26,030	27,453
Kelps	11,324	15,122	17,013	17,828	18,782
"Wakame" seaweed	4,672	3,787	2,107	3,164	2,612
Others	3,940	3,535	3,882	5,038	6,059
Marine Cultures	135,276	137,383	170,776	225,146	232,494
Yellow tails	21,157	34,255	45,372	45,235	72,705
Pearl	20,105	10,823	13,893	16,297	14,473
Oyster	8,627	10,369	12,189	12,836	16,511
"Nori" seaweed	74,527	66,450	76,948	117,904	88,070
"Wakame" seaweed	6,506	6,958	8,397	10,675	11,134
Others	4,354	8,528	13,977	22,199	29,601
Inland Water Fisheries	17,019	21,371	23,079	29,848	34,843
Salmons, trouts	1,092	1,427	1,462	2,166	2,163
Sweet fish	5,177	8,113	8,579	11,143	14,767
Carps	2,957	2,887	3,252	3,644	4,177
Eel	2,990	3,138	2,998	2,474	2,828
Corbicula	674	1,257	1,700	1,943	2,603
Others	4,129	4,549	5,088	8,478	8,305
Inland Water Cultures	31,712	34,923	44,099	52,760	63,991
Trouts	2,509	4,755	5,041	7,727	9,115
Carps	5,074	7,067	7,547	11,525	13,516
Eel	22,084	18,788	26,096	27,116	33,556
Others	2,045	4,314	5,416	6,392	7,804
Whaling	27,195	31,374	26,399	26,214	30,359

Note: 1) Excluded whales.

I -5. CATCH IN QUANTITY BY FISHERY TYPE, 1970～1974

Unit : Metric tons

Type of Fisheries	1970	1971	1972	1973	1974
Grand Total 1)	9 314,662	9 908,544	10,213,113	10,762,644	10,807,781
Marine Fisheries 1).....	8,597,761	9.148,756	9,400,020	9,793,029	9,748,599
Distant Waters.....	3,429,038	3,673,686	3,904,545	3,988,487	3,697.554
King crab gill net.....	32.725	22,781	21,927	17,159	13,467
Salmon drift gill net.....	36,409	37,238	35,205	35,588	33,563
Large trawls 2).....	2,883,058	3,164,953	3,375,004	3,403,282	3,109,973
Tuna long line.....	276,028	245,361	231,277	224,681	207,429
Skipjack pole-and-line.....	162,195	164,770	201,785	272,182	286,446
Others.....	38,623	38,583	39,347	35,595	34,856
Coastal and Offshore Waters.....	5,168,723	5,475,060	5,495,475	5,804,542	6,051,045
Medium trawls.....	765,490	894,863	997,006	1,006,796	1,201,610
Small trawls.....	243,145	265,283	324,811	258,814	291,679
Purse seines.....	1,697,241	1,820,862	1,686,319	1,795,881	1,999,177
Saury stick-held-dip net.....	83,730	171,419	177,483	390,716	127,987
Other lift nets.....	87,968	106,007	84,775	80,045	121,912
Gill nets.....	384,386	405,063	362,604	383,248	390,129
Set nets.....	257,532	262,511	262,427	291,771	308,511
Skipjack pole-and-line.....	74,431	65,328	89,346	126,062	158,666
Squid angling.....	403,692	364,577	465,474	354,185	347,376
Other anglings.....	189,061	142,971	124,395	163,009	158,161
Tuna long line	76,542	71,343	72,686	83,293	89,516
Other long lines.....	110,032	97,954	87,960	99,447	88,149
Shellfish collectings.....	231,777	184,161	159,051	171,009	203,479
Seaweed collectings.....	208,905	243,480	230,065	218,177	195,689
Others.....	354,791	379,238	371,073	382,092	380,824
Marine Cultures.....	549,082	608,684	647,905	790,974	879,761
Inland Water Fisheries.....	119,364	100,716	109,357	114,212	112,329
Inland Water Cultures.....	48,455	50,398	55,831	64,429	67,092
Whaling 3).....	16,887	16,419	14,590	11,801	14,277
Antarctic factory ship type...	5,680	7,082	6,571	4,904	7,457
North Pacific factory ship type.....	6,463	4,876	4,039	3,771	3,731
Coastal large type.....	4,118	3,842	3,442	2,593	2,620
Coastal small type.....	626	619	538	533	388

Note: 1) Excluded Whale
2) Including value of medium trawls operated in the North Pacific Ocean.
3) Actual number of catch.

I-6. CATCH IN VALUE BY FISHERY TYPE, 1970～1974

Unit: Hundred million yen

Type of Fisheries	1970	1971	1972	1973	1974
Grand Total 1)	9,692	10,894	11,796	14,641	17,098
Marine Fisheries 1).....	7,851	8,957	9,417	11,564	13,785
Distant Waters.....	2,969	3,348	3,473	4,310	4,643
King crab gill net.....	71	78	71	66	37
Salmon drift gill net.....	174	145	133	189	174
Large trawls 2).....	1,505	1,681	1,759	2,114	2,309
Tuna long lines.....	895	1,048	1,077	1,298	1,371
Skipjack pole-and-line.....	253	340	386	552	646
Others.....	71	56	47	92	105
Coastal and Offshore Waters....	4,882	5,609	5,944	7,254	9,142
Medium trawls.....	345	385	451	584	707
Small trawls.....	465	555	623	670	838
Purse seines.....	819	873	977	1,126	1,475
Saury stick-held-dip net.....	104	144	103	242	94
Other lift nets.....	58	65	63	70	102
Gill nets.....	579	588	627	849	952
Set nets.....	417	515	504	691	895
Skipjack pole-and-line.....	114	114	171	239	322
Squid angling.....	484	792	716	673	1,162
Other anglings.....	282	269	296	382	455
Tuna long line.....	188	220	247	324	446
Other long lines.....	221	210	210	247	293
Shellfish collectings.....	165	154	170	216	283
Seaweed collectings.....	197	223	229	258	272
Others	445	501	558	683	847
Marine Cultures.....	1,353	1,374	1,708	2,252	2,325
Inland Water Fisheries.....	170	214	231	298	348
Inland Water Cultures.....	317	349	441	528	640
Whaling.....	272	314	264	262	304
Antarctic Factory ship type...	148	192	164	168	209
North Pacific factory ship type	95	93	75	74	91
Coastal large type.....	27	26	24	18	24
Coastal small type.....	2	2	2	2	2

Note: 1) Excluded whale.
2) Including value of medium trawls operated in the North Pacific Ocean.

I -7. CATCH BY MAJOR SPECIES AND BY FISHERY TYPE, 1970~1974

1) Albacore, tunas

Unit : Metric ton

	1970	1971	1972	1973	1974
Total Catch	291,017	307,965	318,090	330,282	348,950
Factory ship type long line	18,920	15,521	9,031	5,685	1,798
Tuna long line operated in Atlantic Ocean	12,190	8,707	2,489	162	-
Tuna long line based at foreign ports	7,041	4,223	2,349	501	318
Tuna long line based at domestic ports	202,548	201,736	211,796	215,172	219,463
Skipjack pole and line	34,390	62,927	76 425	88 279	95 423
Purse seines	8,582	8,231	9,550	11,595	16,493
Large set net	2,720	1,425	1,819	2,278	5,774
Others	4,626	5,195	4,651	6,610	9,681

2) Marlins, sword fishes

Total catch	66,733	52,506	48,357	44,937	48,712
Factory ship type tuna long line	4,247	3,817	1,515	1,280	436
Tuna long line operated in Atlantic Ocean	1,968	295	425	5	-
Tuna long line based at foreign ports	1,185	752	156	73	37
Tuna long line based at domestic ports	55,651	44,407	44,087	36,403	42,008
Large set nets	294	206	252	299	212
Others	3,388	3,039	1,942	6,877	6,019

3) Skipjack, frigate mackerel

Total catch	231,901	191,656	253,936	318,292	373,573
Skipjack pole and line	200,814	165,466	212,124	266,638	346,284
Purse seine of one boat operation	4,673	9,938	16,834	18,657	6,525
Purse seine of two boat operation	5,144	3,566	2,855	2,646	1,477
Other anglings	8,613	3,563	7,795	10,443	7,421
Tuna long lines	1,645	416	505	538	282
Set nets	4,649	4,439	8,269	12,363	8,528
Others	6,365	4,264	5,556	7,007	3,056

4) Salmons, trouts

Total catch	117,896	139,299	199,601	136,009	132,531
Factory ship type salmon drift gill net	36,409	37,238	35,205	35,588	33,563
Salmon drift gill net	45,615	47,009	54,636	57,705	51,884
Other long lines	13,791	18,573	2,749	4,088	3,071
Large set nets	16,700	24,678	20,627	29,365	36,247
Small set nets	3,615	6,976	3,680	5,531	4,553
Others	1,768	4,825	2,684	3,764	3,213

5) Herring

Unit : Metric tons

	1970	1971	1972	1973	1974
Total catch	97,374	100,483	62,198	82,658	76,273
Factory ship type large trawl	9,392	9,951	2,444	434	1,746
Medium trawls	9,628	8,414	4,654	21,680	14,760
Large set nets	10	7	2	-	-
Small set nets	69	151	51	36	73
Other gill nets	55,128	59,686	41,163	55,502	50,867
Others	23,147	22,274	13,884	5,006	8,827

6) Anchovy

Total catch	365,471	350,692	369,688	335,425	287,516
Purse seine of one boat operation	88,729	82,752	85,936	86,240	62,156
Purse seine of two boats operation	153,568	154,886	144,515	115,082	100,323
Other surrounding nets	2,453	2,028	1,631	960	3,395
Other lift nets	10,356	9,886	9,587	10,443	8,140
Set nets	19,483	26,360	17,233	18,091	15,035
Others	90,882	74,780	110,786	104,609	98,467

7) Jack mackerel, scad

Total catch	269,311	315,470	193,842	182,720	215,724
Purse seine of one boat operation	169,406	245,765	139,555	132,964	158,337
Purse seine of two boats operation	33,899	29,956	25,169	22,405	22,527
Other surrounding nets	2,317	2,995	1,591	1,266	1,568
Other lift nets	11,065	10,795	7,994	4,094	8,007
Other angling	4,482	3,522	3,351	3,792	4,262
Set nets	22,007	18,375	12,588	12,864	15,589
Trawls	22,494	1,811	1,000	930	1,751
Others	3,641	2,551	2,594	4,405	3,683

8) Mackerels

Total catch	1,301,918	1,253,892	1,189,910	1,134,502	1,330,625
Mackerel pole-and-line	96,658	56,958	33,940	62,841	59,150
Purse seine of one boat operation	773,146	869,216	932,030	919,174	1,113,049
Purse seine of two boats operation	344,879	259,915	157,374	90,719	71,194
Other surrounding nets	2,879	1,529	893	736	1,553
Other lift nets	19,019	21,990	22,323	16,455	16,870
Others	65,337	44,284	43,350	44,577	68,809

9) Saury

Total catch	93,129	190,288	196,615	406,445	135,462
Saury stick-held-dip net	83,683	171,393	177,364	390,653	127,166
Other gill nets	7,310	11,293	13,033	13,033	3,832
Purse seines	311	97	488	514	124
Set nets	1,671	6,941	4,757	1,665	4,072
Others	154	564	973	580	268

10) Yellow tails

Unit : Metric tons

	1970	1971	1972	1973	1974
Total catch	54,875	48,102	49,738	52,916	40,977
Large set nets	16,473	15,179	14,755	14,293	13,206
Small set nets	4,328	4,218	4,174	3,874	3,385
Purse seines	8,758	7,831	11,411	12,100	7,255
Other anglings	17,567	13,838	12,997	15,113	10,781
Others	7,749	7,036	6,401	7,536	6,350

11) Flounders, halibut

Total catch	295,410	347,697	356,845	388,544	356,749
Factory ship type large trawl	101,748	134,368	108,039	124,383	110,682
Large trawl in distant waters	57,393	70,061	106,430	117,093	91,682
Large trawl, west of 128°30' E in East China Sea	15,545	16,512	17,149	17,139	19,535
Medium trawls	52,012	56,074	54,152	60,298	65,542
Small trawls	26,629	27,695	27,278	26,691	26,860
Other gil nets	31,768	33,446	31,394	32,098	32,642
Others	10,315	9,541	12,403	10,842	9,806

12) Cod

Total catch	117,119	95,320	87,604	108,513	108,399
Factory ship type large trawl	48,403	17,511	19,617	29,848	32,306
Large trawls in distant waters	40,165	38,756	28,909	30,036	26,612
Medium trawls	10,558	23,932	24,645	30,642	29,652
Small trawls	1,003	1,183	820	1,205	1,392
Other gill nets	3,383	3,583	3,861	6,520	6,128
Other long lines	12,326	9,087	6,921	8,230	10,927
Others	1,281	1,268	2,831	2,032	1,382

13) Alaska pollack

Total catch	2,346,710	2,707,443	3,035,285	3,020,870	2,855,896
Factory ship type large trawl	1,030,825	1,075,150	1,154,967	949,750	806,147
Large trawls in distant waters	898,133	1,130,301	1,284,330	1,453,533	1,331,742
Medium trawls	251,446	341,086	450,981	476,038	551,199
Small trawls	2,023	2,518	2,398	3,800	6,688
Other gill nets	146,167	143,638	115,950	100,987	135,852
Other long lines	17,158	13,877	25,537	33,927	20,497
Others	958	873	1,122	2,835	3,771

14) Croakers

Total catch	64,311	49,878	41,916	45,424	51,773
Large trawls in distant waters	8	1,102	1,304	1,305	717
Large trawls, west of 128°30' E in East China Sea	59,934	44,252	35,554	38,259	44,191
Medium trawls	197	204	489	303	445
Small trawls	1,184	1,473	1,798	1,838	2,211
Others	2,988	2,847	2,771	3,719	4,209

15) Sea breams

Unit : Metric tons

	1970	1971	1972	1973	1974
Total catch	38,329	29,383	32,782	30,276	29,497
Large trawls in distant waters.	6,233	1,328	3,472	2,457	3,063
Large trawls, west of 128°30' E in East China Sea.....	3.883	2,914	4 044	4,559	3,406
Medium trawls.....	2,125	1,709	1,982	1,816	1,898
Small trawls.....	2,153	1,938	2,709	2,320	2,554
Other anglings and long lines..	10,964	10,397	11,081	10,457	10,185
Set nets.....	2,242	1,816	2,001	1,641	1,854
Others.....	10,729	9,281	7,493	7,026	6,537

16) Shrimps, prawns, lobster

Total catch	55,637	51,151	58,276	62,260	78,914
Factory ship type large trawl..	1,950	2,057	---	86	-
Large trawls in Bering Sea.....	2,541	708	2	-	-
Large trawls, west of 128°30' E in East China Sea.....	2,955	1,654	1,851	6,316	18,146
Medium trawls.....	5,528	3,356	2,815	3,377	3,636
Small trawls.....	27,430	28,729	35,237	32,263	34,490
Other surrounding nets.....	3,966	3,116	3,531	2,964	4,417
Others.....	11,267	11,531	14,838	17,254	18,225

17) Crabs

Total catch	89,872	74,515	78,462	85,009	90,590
Factory ship type king crab gill net.....	32,725	22,781	21,927	17,159	13,467
Medium trawls.....	12,047	12,014	11,155	6,818	5,879
Small trawls.....	5,296	4,506	4,251	7,350	6,286
Other gill nets.....	3,763	4,085	4,907	5,233	4,508
Others.....	36,041	31,129	37,032	48,449	60,450

18) Squids, Cuttlefishes

Total catch	518,917	482,518	599,450	475,041	469,933
Squid angling.....	403,292	364,175	465,267	352,136	346,944
Large trawls in distant waters.....	35,086	37,159	45,371	34,672	39,000
Large trawls, west of 128°30'E in East China sea.....	19,295	22,864	21,943	25,501	18,779
Medium trawls.....	14,888	15,671	22,171	21,604	21,970
Small trawls.....	8,461	8,617	9,026	9,736	10,920
Large set nets.....	13,941	10,397	11,480	12,584	8,246
Small set nets.....	11,799	10,209	13,207	9,576	9,729
Others.....	12,155	13,426	10,985	9,232	14,345

19) Octopuses

Total catch	96,127	85,507	66,857	62,278	76,731
Large trawls in distant waters	50,853	38,063	25,287	19,390	28,144
Medium trawls.....	4,112	3,127	3,063	2,511	2,527
Small trawls.....	9,122	8,972	9,163	9,423	10,363
Other anglings.....	2,471	2,579	2,296	2,265	2,802
Other long lines.....	9,335	11,302	6,407	7,784	9,017
Others.....	20,234	21,464	20,641	20,905	23,878

II. STUCTURE OF FISHERY PRODUCTION

II-1. NUMBER OF MARINE FISHERIES ESTABLISHMENTS, 1970~1974

Unit : Number

Sarata	1970	1971	1972	1973	1974
Grand Total	228,215	225,438	223,202	232,302	233,208
Without fishing boat.....	...	...	...	14,686	14,311
Using non-powered boats.....	12,877	9,937	8,256	7,793	4,915
Using powered boats					
Less than 3 G.T.	102,051	101,568	101,235	96,970	100,578
3 - 5.....	20,816	21,825	23,647	25,933	27,115
5 - 10.....	7,051	7,304	7,817	8,250	8,382
10 - 30.....	5,186	5,193	5,445	5,352	5,457
30 - 100.....	2,717	2,781	2,905	2,853	2,912
100 - 200.....	691	711	704	627	636
200 - 500.....	587	584	609	603	612
500 - 1,000.....	263	252	258	278	314
1,000 G.T. and over	169	172	186	215	219
Set nets					
Large set nets.....	847	861	867	832	923
Small set nets.....	5,701	5,807	5,841	5,755	6,118
Beach seine	811	784	758	808	669
Culture					
Laver culture	48,585	47,226	43,028	38,436	25,641
Oyster culture.....	3,484	3,471	3,413	3,245	3,354
Pearl culture	3,380	2,808	2,522	1,878	1,849
Other cultures.....	12,999	14,154	15,711	17,788	19,203

Note: Excluding the number of fisheries establishments which engaged in fishing for less than 30 days in a year.

II-2. NUMBER OF MARINE FISHERY WORKERS, 1970~1974

	1970	1971	1972	1973	1974
Grand Total	549.4	525.4	508.2	510.7	496.9
Men	437.9	423.5	419.5	420.5	412.6
15 - 39 years old	202.7	189.3	180.7	167.6	153.3
40 - 59 years old	167.3	167.7	173.1	185.9	189.4
60 years old and over	67.9	66.5	65.7	67.0	69.9
Women	111.5	101.9	88.6	90.2	84.3

II-3. NUMBER OF FISHING BOATS, 1970~1974

Size	1970	1971	1972	1973	1974
Grand Total	391,789	396,662	384,391	399,023	394,333
Marine	370,609	374,237	363,258	377,382	372,151
Non-powered	104,957	97,613	78,225	78,953	57,673
Powered	265,652	276,624	285,033	298,429	314,478
Less than 5 G.T.	239,412	250,081	257,602	269,960	285,695
5 - 9	8,923	9,382	9,901	10,372	10,733
10 - 49	11,085	10,876	10,881	10,955	10,809
50 - 99	3,444	3,446	3,690	3,977	4,045
100 - 199	1,212	1,221	1,222	1,255	1,253
200 - 499	1,251	1,294	1,419	1,590	1,633
500 - 999	117	115	108	97	95
1,000 G.T. and over	208	209	210	223	215
Inland Water	21,180	22,425	21,133	21,641	22,182
Non-powered	15,643	16,746	14,842	15,453	14,030
Powered	5,537	5,679	6,291	6,188	8,152
Less than 5 G.T.	5,532	5,675	6,288	6,185	8,149
5 G.T. and over	5	4	3	3	3

II-4. GROSS TONNAGES OF FISHING BOATS, 1970~1974

Size	1970	1971	1972	1973	1974
Grand Total	2,531,318	2,546,992	2,612,074	2,712,030	2,701,885
Marine	2,516,245	2,531,435	2,596,854	2,696,724	2,686,070
Non-powered	72,520	67,397	58,027	57,015	44,729
Powered	2,443,725	2,464,037	2,538,827	2,639,709	2,641,340
Less than 5 G.T.	409,216	426,912	445,918	470,342	492,536
5 - 9	68,082	72,177	76,444	80,419	83,522
10 - 49	252,433	247,614	245,123	239,557	232,376
50 - 99	278,707	277,371	299,197	319,888	323,648
100 - 199	182,826	186,315	185,879	184,510	182,287
200 - 499	403,768	433,633	471,289	504,965	520,698
500 - 999	89,542	87,857	82,542	73,005	71,339
1,000 G.T. and over	759,152	732,158	733,433	767,023	734,934
Inland Water	15,073	15,557	15,220	15,306	15,805
Non-powered	8,202	8,495	7,457	7,855	7,076
Powered	6,870	7,062	7,763	7,451	8,739
Less than 5 G.T.	6,822	7,021	7,736	7,424	8,712
5 G.T. and over	48	41	27	27	27

III. MARKETING OF FISHERY PRODUCT

III-1. QUANTITY AND PRICE OF LANDINGS BY COMMODITY AT FISH MARKETS IN PRODUCING AREAS, 1974

Commodity	Quantity of landings	Price
Total of fishes, other marine animals, marine mammals and whales	5,207,283	107
Bluefin tuna		
Fresh	4,882	1,331
Frozen, round type	25,378	1,173
Frozen, fillet type	878	1,257
Albacore		
Fresh	24,558	283
Frozen, round type	70,875	226
Frozen, fillet type	17	-
Bigeye tuna		
Fresh	13,175	879
Frozen, round type	73,251	573
Frozen, fillet type	289	472
Yellowfin tuna		
Fresh	27,069	473
Frozen, round type	38,510	482
Frozen, fillet type	101	425
Other tunas		
Fresh	8,037	416
Frozen	899	257
Striped marlin		
Fresh	6,322	665
Frozen, round type	7,610	615
Frozen, fillet type	47	489
Broadbill swordfish		
Fresh	7,495	410
Frozen, round type	727	394
Frozen, fillet type	4,336	498
Black marlins		
Fresh	2,573	467
Frozen, round type	8,797	503
Frozen, fillet type	246	437
Other Swordfish marlins and Sailfish		
Fresh	521	727
Frozen, round type	2,680	233
Frozen, fillet type	586	249
Skipjack		
Fresh	64,500	228
Frozen	167,849	167
Salmons		
Fresh	11,436	718
Frozen	10,047	829
Salted	17,878	780
Salmons (Pink and Cherry salmons)		
Fresh	14,865	516
Frozen	1,365	581
Salted	4,032	456
Sardine	207,032	39
Round herring	12,749	82
Jack mackerel	102,934	189
Mackerel scad	35,604	81
Mackerels	999,853	44
Saury	111,815	79
Common squid		
Fresh	86,295	317
Frozen	102,260	323
Bastard halibut	7,799	656
Soles		
Fresh	76,039	172
Frozen	83,053	139
Cod		
Fresh	4,248	114
Frozen	21,477	172
Alaska pollack		
Fresh	1,432,387	26
Frozen	3,711	33
Atka mackerel	110,125	29
"Menuke" Rockfishes		
Fresh	7,074	362
Frozen	15,430	248
"Kichiji" Rockfishes	12,944	233
Sand fish	12,428	86
Deep sea smelts	5,233	101
Sharks		
Fresh	30,897	71
Frozen	4,490	182
Yellow croaker	18,243	66
Other croakers	26,227	157
Lizard fishes	16,030	105
Butter fish	1,939	457
Sharp toothed eel	15,807	172
Hairtail	25,372	93
Gurnards	3,512	286
Skates and Rays	6,498	89
Red sea bream	6,560	1,183
Crimson sea bream	1,034	830
Yellow sea bream	4,467	823
Black sea bream	465	772
Other sea breams		
Frozen	3,844	748
Yellow tails	18,522	653
Spanish mackerels		
Fresh	14,052	174
Frozen	2,021	246

Remarks: 1. The quantity of landings is of the 65 fishing ports in the producing areas.

2. Prices here indicate the average prices per Kg, which are obtained by dividing the value of landings by the quantities of landings.

Unit : Quantity ton
Price yen per Kg

Commodity	Quantity of landings	Price
Dolphin fishes	5,322	145
Flying fishes	1,432	170
Frigate mackerel	9,953	116
Mallets	346	324
Common sea bass	16,075	129
Herring		
Fresh	48,750	90
Frozen	202,046	26
Sand launce		
Anchovy	32,810	43
Post larval.....	477	403
Other fishes		
Fresh	314,648	125
Frozen	82,182	179
Salted	30	495
Cuttlefishes		
Fresh	4,138	245
Frozen	5,756	158
Other cuttlefishes	54,963	241
Octopuses		
Fresh	9,505	197
Frozen	3,749	74
Spiny lobster	113	3,123
"Kuruma"prawn	163	2,762
Other Lobster, Prawns and Shrimps		
Fresh	18,774	644
Frozen	3,622	502
King crab	844	233
Tanner crab	3,932	808
Blue crabs	530	602
Other crabs	24,669	169
Sea-urchins		
With shells	90	568
Shelled	216	4,935
Sea-cucumbers	662	325
Other marine animals		
Fresh	17,208	44
Frozen	6	287
Marine mammals	519	106
Whale(by whaling)		
Fresh	4,802	40
Frozen	29,941	-
Salted	-	-

Commodity	Quantity of landings	Price
Total of shellfishes		
With shell	13,320	252
Shelled	2,315	538
Abalones	258	1,906
Top shell	1,042	520
Hard clanis		
With shell	17	208
Short-necked clams		
With shell	639	106
Hen clams		
With shell	2,732	225
Shelled	1,142	614
Common scallop		
With shell	231	336
Shelled	81	1,587
"Mogai" clam		
With shell	1,636	-
Shelled	2	349
Oyster		
With shell	12	426
Shelled	318	499
Other shellfishes		
With shell	6,749	164
Shelled	770	325
Total of seaweeds		
Fresh	2,227	85
Dried	2,722	758
"Kombu" tangle		
Dried	2,585	768
"Wakame" seaweed		
Fresh	1,873	49
Dried	56	848
"Tengusa" agar-agars		
Fresh	-	-
Dried	36	290
"Funori"seaweed		
Fresh	14	495
Dried	2	655
Other seaweeds		
Fresh	339	264
Dried	43	408
Total of pried laver.. 1)	6,309	120
"Kuronori" laver ..... 1)	6,309	120
"Mazenori" laver ..... 1)	-	-
"Aonori" laver ..... 1)	0	447

Remarks: 1) Quantity are in unit of 10,000 sheets and prices are per 10 sheets.

III-2. QUANTITY AND PRICE OF ARRIVALS BY COMMODITY AT TOKYO CENTRAL WHOLESALE MARKETS, 1974

Unit : Quantity ton
Price yen per kg

Commodity	Quantity of arrivals	Price
Fresh		
Marine fishes	226,147	515
Bluefin tuna	183,789	484
Albacore	1,247	1,910
Bigeye tuna	318	335
Yellowfin tuna	2,736	630
Other tunas	2,271	713
Striped marlin	1,278	955
Broadbill swordfish	1,085	551
Blue marlins	596	545
Other marline	139	450
Skipjacks	10,293	389
Salmons	883	755
Salmons(Pink and Cherry salmons)	598	504
Sardine	7,391	136
Round herring	63	131
Jack mackerel	20,749	390
Mackerels	18,265	138
Saury	5,862	249
Common squid	16,877	458
Bastard haribut	1,500	753
Flat fishes	9,511	449
Cod	1,666	262
Ataka mackerel	1,056	82
Rock fishes.....	4,226	424
Sharks	4,502	147
Yellow croaker	-	-
Other croakers	883	272
Sharp toothed eel	157	540
Hairtail	1,281	283
Red sea bream	1,045	1,200
Crimson sea bream	277	1,080
Yellow sea bream	44	871
Yellow tail	17,530	779
Fishery	6,656	750
Culture	10,875	797
Spanish mackerels	1,635	445
Flying fishes	1,193	242
Common sea bass	518	476
Other fishes	31,711	453
Cuttlefish	1,412	533
Other cuttlefishes	2,857	389
Octopuses	502	564
Spiny lobstor	153	2,707
"Kurumaebi" prawn	106	3,690
"Taisho ebi" prawn	2,397	900
Other shrimps	2,583	1,211
Crabs	1,194	498
Other marine animals	1,781	2,430
Inland Water fishes	3,266	1,174
Shell-fishes	39,092	604
Abalones with shell	986	2,946
Short necked clam with shell	1,031	99
Oyster shelled	5,599	627
Freshwater clam with shell	3,750	71
Other shellfishes	27,726	607
Frozen		
Bluefin tuna	21,040	1,216
Albacore.....	4,541	334
Bigeye tuna	56,412	653
Yellowfin tuna	11,191	524
Other tunas	-	-
Stripped marlin	5,561	618
Bradbill swordfish	6,448	526
Blue marlins	1,927	475
Other marlins	-	-
Skipjack	535	253
Salmons	12,183	670
Salmons(Pink and Cherry salmons)	1,910	652
Jack mackerel	5,046	241
Mackerels	5,149	121
Saury	15,301	168
Common squid	15,872	423
Flat fishes	17,969	238
Cod	4,606	170
Rock fishes	7,659	220
Sea breams	7,666	200
Spanish mackerels	1,396	230
Herring	5,889	162
Other fishes	71,641	520
"Mongo-ika" cuttlefish ...	13,898	669
Other cuttlefishes	6,016	473
Octopuses	13,311	433
"Taisho ebi" prawn	1,199	1,074
Other marine animals	-	-
Shellfishes	-	-
Meat of whale		
Fresh	173	571
Frozen	4,559	448
Processed fishery products		
Salted and dried		
Sardine, round herring ..	10,713	223
Jack mackerel, scad	11,515	404
Mackerels	3,967	164
Saury	9,670	221
Salted		
Salmons	21,112	810
Salmons(Pink and Cherry salmons)	5,627	556
Mackerels	1,207	136
Other salted productions	34,037	957
Processed whale products	913	439
Sea weeds	5,470	270
Other processed fishery products	172,239	419

Remark: Prices here indicate the average price which are obtained by dividing the value of arrivals by the quantities of arrivals.

III-3. PRICES OF MAJOR FISHERY PRODUCTS BY STEPS OF SALE DISTRIBUTION IN LARGE CONSUMING CITIES, 1974

1) Jack Mackerel(Fresh & Round, Middle Size)

City	Wholesale price	Broker price	Retail price
Sendai	560	624	782
Tokyo	503	618	802
Yokohama	514	552	756
Nagoya	291	408	668
Kyoto	401	524	752
Osaka	505	537	878
Kobe	433	458	600
Hiroshima ...	322	...	571
Fukuoka	288	339	519

2) Mackerels(Fresh & Round, Large Size)

City	Wholesale price	Broker price	Retail price
Sapporo	112	123	208
Sendai	137	167	235
Tokyo	162	204	273
Yokohama	166	186	264
Nagoya	123	157	259
Kyoto	199	241	415
Osaka	208	224	345
Kobe	189	209	285
Hiroshima ...	148	...	281
Fukuoka	151	178	276

3) Sardine(Fresh & Round, Middle Size)

City	Wholesale price	Broker price	Retail price
Tokyo	158	205	282
Nagoya	137	207	312

4) Saury(Fresh & Round, Large Size)

City	Wholesale price	Broker price	Retail price
Sapporo	195	209	297
Sendai	325	361	466
Tokyo	268	333	430
Yokohama	299	324	451
Nagoya	197	265	387
Osaka	245	260	500

5) Squid(Fresh & Round, Middle & Large Size)

Unit : Yen per kg

City	Wholesale price	Broker price	Retail Price
Sapporo	346	373	499
Sendai	449	514	660
Tokyo	477	572	722
Yokohama ...	455	483	688
Nagoya	373	446	688
Kyoto	409	475	657
Osaka	463	485	643
Kobe	386	409	519
Fukuoka	311	346	489

6) Squid(Frozen & Round)

City	Wholesale price	Broker price	Retail price
Sapporo	414	452	601
Sendai	442	478	592
Tokyo	467	551	686
Yokohama ...	430	465	581
Nagoya	370	440	556
Kyoto	401	454	629
Osaka	392	415	558
Kobe	383	410	552

7) Mackerels(Frozen & Round)

City	Wholesale price	Broker price	Retail price
Tokyo	152	194	256
Nagoya	156	200	249
Osaka	213	228	383

8) Bigeye Tuna(Frozen)

City	Wholesale price (Round)	Broker price (Block)	Retail price (Slice)
Tokyo	675	877	2,465
Osaka	525	857	2,036

9) White Salmons(Salted)

City	Wholesale price (Round)	Broker price (Round)	Retail price (Slice)
Sapporo	686	766	1,458
Sendai	604	785	1,174
Tokyo	830	1,012	1,491
Nagoya	704	800	1,300
Kyoto	919	1,105	1,737
Osaka	1,123	1,176	1,723

III-4. PROCESSED FISHERY

Proceseed products 1)	1970	1971	1972	1973	1974
Boiled and dried	83.3	84.1	89.9	79.2	81.8
Anchovies	58.0	59.6	66.4	66.9	62.5
Jack mackerel	6.4	5.5	5.0	2.8	3.7
Sand lance	4.4	5.3	4.3	4.4	7.2
Others	14.5	13.7	14.2	5.1	8.4
Cured	98.4	95.0	106.3	113.7	118.8
Mackerels	20.8	22.4	26.9	22.6	26.2
Skipjack	21.8	20.7	23.6	26.9	29.8
Others	55.8	51.9	55.8	64.2	62.9
Dried	41.9	39.5	46.1	45.2	45.8
herring	17.5	18.3	19.7	19.1	19.2
Squids	11.1	8.0	13.1	10.9	8.7
Others	13.2	13.2	13.3	15.2	17.9
Dressed frozen	51.6	70.3	98.6	108.3	112.2
Frozen	2,434.2	2,750.3	2,928.9	3,081.1	2,948.3
Albacore, tunas	196.2	210.0	217.2	214.9	221.3
Cod, Alaska pollack	42.4	52.5	74.0	115.7	125.4
Halibut, flunders	88.5	126.0	177.7	172.7	161.2
Mackerels	386.9	441.2	436.7	232.9	286.6
Marlins	52.8	39.5	39.1	31.9	34.8
Sardines, anchovies	89.7	102.1	117.6	245.9	243.8
Saury	76.6	179.9	176.2	331.2	131.0
Skipjack	45.2	49.3	75.1	141.5	161.7
Squids, cuttlefishes, octopus	254.4	231.1	364.9	221.5	224.4
Whales	118.7	118.1	103.0	99.5	87.5
Minced fish meats	292.0	359.3	395.0	423.1	384.3
Others	790.8	841.3	752.4	850.3	896.3
Kneaded	1,081.3	1,127.1	1,158.7	1,187.5	1,148.7
"Chikawa" 2)	221.5	238.5	244.6	249.2	250.9
Fish sausage	169.5	165.4	162.4	164.3	120.5
"Kamaboko" 3)	356.4	379.8	400.3	425.6	437.6
Others	333.9	343.4	351.4	348.4	339.7
Manure and feed	802.0	843.4	924.6	975.4	962.7
Fish meal	404.4	421.9	428.5	471.3	489.4
Dried press cake	250.7	252.9	296.4	305.5	271.7
Others	146.9	168.7	199.7	198.6	201.6
Oil and fat	176.9	160.0	162.9	173.0	185.9
Fish oil	86.5	72.3	88.3	102.4	122.5
Fish viscera oil	17.9	15.8	14.2	20.4	20.7
Whale oil	72.3	71.8	60.2	50.2	42.8
Others	0.2	0.2	0.2	-	0.1
Salted	180.2	223.4	222.1	223.9	215.5
Alaska pollack roe, cod roe	55.2	54.8	41.4	46.8	46.6
Cod, Alaska pollack	11.1	17.7	24.3	15.8	14.7
Herring roe, salmon roe	5.0	5.4	7.3	9.1	12.7
Mackerels	55.8	55.3	47.4	28.8	31.7
Salmons	42.3	43.8	60.0	57.1	45.1
Trouts	14.9	38.9	22.4	38.7	28.7
Others	20.2	22.5	19.3	28.1	22.7

PRODUCTS, 1970～1974

Unit : Thousand metric tons
Canned Thousand cases

Processed products	1970	1971	1972	1973	1974
Salted and dried	144.5	181.6	177.2	211.2	228.6
Jack mackerel	39.2	38.9	38.2	44.9	42.2
Mackerels.....	25.9	29.8	26.3	31.9	32.4
Sardines, anchovies	22.6	50.8	48.5	56.8	59.7
Saury	4.6	3.8	7.6	16.4	26.7
Others	52.2	58.2	56.6	61.2	67.6
Smoked	7.6	8.1	6.8	9.4	9.7
Salmons, trouts.....	0.7	0.8	0.9	1.3	1.0
Squids, cuttlefishes	0.5	0.3	0.3	0.7	0.5
Whale meat.....	3.8	4.6	3.2	1.3	1.6
Others	2.6	2.4	2.5	6.1	6.6
Others.....	251.3	240.8	259.5	292.4	283.0
Canned 4)Standard number of cases5)	16,210	18,289	17,575	16,657	17,316
(Actual number of cases)	(32,192)	(36,473)	(35,444)	(33,291)	(35,715)
Shellfish	836	1,056	1,231	861	981
Crabs	319	136	159	224	158
Jack mackerel	0	13	2	2	3
Mackerel	8,358	10,010	9,905	9,639	9,555
Prawns, shrimps	9	9	10	9	8
Salmons, trouts	1,077	1,873	954	917	1,089
Sardines, anchovies	47	73	195	296	303
Saury	235	569	349	232	384
Squids, cuttlefishes	274	43	232	164	80
Tunas, skipjack	4,150	3,355	3,360	3,484	3,831
Whale	622	819	735	600	694
Others	283	333	443	229	230

Note : 1) Excluding dried seaweeds
2) Baked products of kneaded fish meat with seasonings.
3) Steamed products of kneaded fish meat with seasonings.
4) Surveyed by the Canners Association of Japan.
5) Converted to 450g x 48 cans in net weight for one case.

III-5. VALUE OF IMPORTS AND EXPORTS

Imports

Year	Live animals	Fresh and frozen			Salted, dried and smoked	Raw agar-agar
		Shrimps	Skipjack, Tunas, Marlins	Others		
1963	---	8,449	82	2,821	1,427	645
1964	1,027	11,317	232	6,575	2,638	502
1965	535	12,938	290	8,276	3,592	562
1966	931	21,631	1,366	10,090	5,143	1,923
1967	1,305	28,704	2,085	11,663	6,155	2,562
1968	1,752	28,108	3,846	10,935	7,690	816
1969	2,745	43,829	4,923	14,923	7,033	896
1970	5,851	49,329	9,070	18,698	12,478	772
1971	7,779	73,333	11,538	32,832	13,838	610
1972	12,418	89,918	10,422	36,754	22,878	775
1973	17,752	118,207	14,171	71,137	42,059	1,309
1974	19,862	117,571	21,684	90,242	40,052	2,142

Exports

Year	Frozen		Salted and dried	Canned		
	Skipjack, Tunas, Marlins,	Others		Jack mackerel, mackerel	Salmons	Saury
1963	18,368	7,507	2,039	2,696	16,322	3,059
1964	22,320	9,025	2,302	5,746	15,309	3,289
1965	21,273	10,707	2,202	4,951	21,945	1,202
1966	31,818	10,724	2,892	8,495	13,766	1,817
1967	18,031	11,820	2,880	10,180	16,680	688
1968	17,758	14,895	3,212	14,502	21,000	312
1969	12,619	18,342	4,354	15,294	13,713	112
1970	13,983	21,573	4,248	19,573	16,181	41
1971	13,794	25,487	4,230	23,140	18,796	29
1972	17,752	36,629	4,513	23,286	17,196	22
1973	21,632	44,688	4,745	26,259	10,419	70
1974	24,331	42,714	5,398	35,554	12,993	53

BY COMMODITY, 1963～1974 ·1974

Unit : Million yen

fish meals	pearls	oil and fat	prepared	dried seaweeds	Others	Total
3,984	419	64	388	432	2,678	21,386
4,919	621	64	373	1,889	2,109	32,266
5,897	905	69	1,281	0	3,067	37,422
6,657	1,248	400	2,240	3,474	5,229	60,332
4,867	794	297	2,184	3,924	4,427	68,966
7,278	1,448	424	1,532	5,953	2,352	72,135
5,919	1,496	558	1,808	6,441	3,232	93,843
6,689	1.474	229	3,561	3,099	3,378	114,628
1,414	1,315	356	5,721	1,337	3,272	153,345
3,266	1,550	351	7,384	768	3,854	190,338
8,738	2,175	445	14,784	2,958	6,339	300,074
3,404	2,158	569	18,934	59	6,563	323,240

Unit : Million yen

			Oil and fat		Pearls	Others	Total
Tunas	Crabs	Others	Whale Oil	Others			
12,674	3,948	4,338	9,111	472	17,024	3,032	101,861
13,536	4,635	3,717	7,970	466	19,828	3,843	111,987
12,859	4,531	3,647	7,296	234	23,118	5,030	118,997
17,121	3,876	4,687	4,406	250	23,291	7,195	130,338
18,544	3,716	4,894	2,942	356	19,813	6,866	117,411
19,776	5,446	4,410	1,027	343	16,849	6,685	126,217
23,683	5,534	4,977	1,497	328	17,510	6,919	124,881
28,862	2,929	5,590	2,597	1,307	14,725	9,110	140,717
23,016	3,966	5,288	4,681	2,431	12,599	9,205	146,662
27,091	1,724	6,191	1,555	1,893	14,189	10,138	162,179
24,440	315	5,714	1,693	3,048	17,867	12,604	173,494
29,119	644	6,408	3,930	11,268	17,484	12,069	201,965

III-6. VALUE OF IMPORTS AND

Imports

Year	Republic of Korea	P.R.China	Taiwan	Indonesia	Spain	India	U.S.A.
1963	2,998	2,597	191	47	428	24	1,243
1964	5,729	5,778	345	94	1,004	324	2,136
1965	5,758	6,559	293	148	2,074	440	2,573
1966	10,050	11,501	723	337	2,562	659	6,263
1967	11,670	7,029	1,305	190	1,812	1,704	5,286
1968	11,549	5,663	2,530	690	1,111	2,384	6,235
1969	12,262	6,842	4,232	2,614	1,049	4,317	9,180
1970	14,203	10,815	9,151	3,791	2,519	5,317	8,700
1971	17,327	11,049	13,324	8,336	9,332	8,601	10,236
1972	24,623	15,261	17,322	14,992	8,763	12,358	7,570
1973	42,273	20,824	25,338	22,235	9,444	17,750	24,243
1974	62,163	29,020	28,746	24,504	17,872	17,391	16,326

Exports

year	U.S.A.	Nether-land	United Kingdom	Australia	Philip-pines	Republic of Germany	Canada
1963	31,662	5,836	17,618	1,949	2,941	4,839	1,695
1964	32,479	3,930	16,548	2,676	4,197	6,764	1,851
1965	32,140	4,166	22,660	3,393	3,348	9,770	2,207
1966	42,349	4,006	14,840	3,123	4,753	8,209	2,512
1967	33,094	4,482	17,550	3,068	7,064	7,068	2,456
1968	37,166	2,603	21,372	3,341	7,108	7,575	2,152
1969	37,390	3,145	13,323	4,009	5,752	8,215	2,721
1970	41,951	4,982	16,835	5,322	5,760	9,082	3,932
1971	40,107	6,985	15,763	4,971	6,549	6,917	4,833
1972	59,753	4,992	12,622	4,741	5,200	7,680	5,963
1973	61,664	4,088	10,520	5,363	5,301	8,871	7,437
1974	62,373	14,400	10,983	8,383	8,516	8,183	7,151

EXPORTS BY COUNTRY, 1963～1974

Unit : Million yen

Canada	Thailand	Australia	U.S.S.R	Mexico	Hong Kong	Iceland	Others	Total
223	427	779	237	2,792	1,909	-	7,491	21,386
286	1,098	1,126	980	3,464	1,383	-	8,519	32,266
411	1,404	1,192	1,544	3,734	2,101	-	9,191	37,422
715	2,703	1,782	2,260	4,334	2,800	299	13,344	60,332
986	3,845	2,069	2,839	7,320	3,112	168	19,631	68,966
1,465	4,195	2,486	2,278	5,437	3,958	185	21,969	72,135
1,224	5,825	5,225	2,791	5,786	5,349	71	27,076	93,843
1,846	5,651	5,779	3,238	7,355	3,819	89	32,365	114,628
3,396	7,902	7,206	2,936	7,856	5,651	401	29,792	153,345
7,310	10,295	8,516	2,481	7,102	5,485	662	47,598	190,338
17,401	14,082	10,795	6,067	12,323	5,879	3,049	63,371	300,074
14,167	12,901	11,179	10,307	7,075	7,069	5,539	58,381	323,240

Unit : Million yen

Puerto Rico	Taiwan	Spain	Switzer-land	Hong Kong	Singapore	Italy	Others	Total
2,900	114	521	3,985	2,373	745	5,970	18,607	101,755
5,300	133	288	3,856	4,112	409	5,124	24,320	111,987
4,890	183	1,197	4,508	2,313	586	6,064	21,572	118,997
7,199	424	1,496	4,909	3,313	870	9,692	22,643	130,338
4,060	439	1,027	4,849	2,606	1,327	6,212	22,109	117,411
3,189	217	1,397	3,896	2,852	1,365	5,385	26,599	126,217
2,326	1,259	1,322	4,320	4,048	1,962	4,452	30,637	124,881
3,116	1,830	1,831	3,735	4,123	5,220	5,851	27,147	140,717
5,896	2,071	2,060	3,507	3,011	2,834	4,779	36,379	146,662
6,019	2,996	2,431	4,553	4,053	2,328	3,400	35,448	162,179
4,413	5,939	4,140	6,146	4,662	3,463	4,046	37,441	173,494
5,854	5,841	4,904	4,729	4,378	3,618	3,551	49,301	201,965

III-7. VALUE OF IMPORTS AND EXPORTS (by Country, and by Commodity)

A. Imports

Origin	Live animals	Fresh and frozen			Salted, dried and smoked
		Shrimps	Skipjack, Tunas, Marlins	Others	
Total	19,862	117,571	21,684	90,242	40,052
Republic of Korea	4,170	2,458	12,838	27,401	3,995
P.R. China	196	14,195	3	2,333	10,300
Taiwan	14,580	3,712	5,358	2,265	194
Indonesia	7	23,117	116	88	772
Spain	-	-	50	17,540	8
India	4	17,199	-	97	1
U.S.A.	148	166	353	4,492	10,098
Canada	1	33	263	1,671	12,166
Thailand	92	7,095	-	3,764	240
Australia	-	7,881	27	899	-
U.S.S.R	-	156	-	8,388	571
Mexico	-	6,551	-	1	128
Hong Kong	177	5,608	19	891	16
Iceland	-	-	-	5,336	-
Others	487	29,400	2,657	15,076	1,563

B. Exports

Destination	Frozen		Salted and dried	Canned		
	Skipjack, Tunas, Marlines	Others		Jack mackerel, Mackerel	Salmons	Saury
Total	24,331	42,714	5,398	35,554	12,993	53
U.S.A.	13,366	18,915	704	4,111	1,668	14
Netherland	57	451	10	286	1,156	2
United Kingdom	-	772	8	629	6,293	-
Australia	-	2,736	12	627	2,391	-
Philippines	-	3	2	7,827	-	-
Republic of Germany	-	237	26	339	28	-
Canada	-	761	41	148	-	0
Puerto Rico	5,848	2	-	-	-	-
Taiwan	-	724	1,243	3	-	19
Spain	595	1,578	411	0	4	-
Switzerland	-	4	1	-	19	-
Hong Kong	46	23	2,362	54	-	0
Singapore	5	67	422	2,774	5	-
Italy	302	2,018	8	413	-	-
Others	1,112	14,423	148	18,343	1,131	2

OF FISHERY PRODUCTS, 1974

Unit : Million ven

Raw agar-agar	Fish meals	Pearls	Oil and fat	Prepared	Dried seaweeds	Others	Total
2,142	3,404	2,158	569	18,934	59	6,563	323,240
-	77	1	4	8,745	58	3,016	62,763
-	28	114	-	1,551	-	300	29,020
104	-	-	5	2,439	-	89	28,746
1	6	73	-	33	-	291	24,504
-	-	-	225	9	-	40	17,872
6	19	9	-	53	-	3	17,391
-	-	12	2	728	-	327	16,326
-	-	-	-	27	-	6	14,167
-	37	70	-	1,593	-	10	12,901
0	-	1,423	-	899	-	50	11,179
-	485	-	69	633	-	5	10,307
2	-	-	-	65	-	328	7,075
-	-	85	-	268	-	5	7,069
-	-	-	-	203	-	0	5,539
2,029	2,752	371	264	1,688	1	2,093	58,381

Unit : Million yen

Tunas	Crabs	Others	Oil and fat		Pearls	Others	Total
			Whale Oil	Others			
29,119	644	6,408	3,930	11,268	17,484	12,069	201,965
12,608	308	2,471	-	2,844	2,292	3,072	62,373
163	60	8	3,844	8,160	98	96	14,400
2,686	1	67	-	20	240	267	10,983
954	59	301	-	1	105	1,197	8,383
-	-	445	3	2	-	34	8,316
2,117	-	31	-	18	4,795	592	8,183
4,700	-	1,308	-	13	114	66	7,151
-	-	-	-	-	-	4	5,854
-	0	122	24	46	-	3,660	5,841
0	-	786	-	3	1,509	18	4,904
1,391	4	41	-	-	3,248	21	4,729
24	2	56	1	1	1,728	81	4,378
2	-	167	-	-	123	55	3,618
37	3	16	-	-	138	616	3,551
4,437	207	589	47	160	3,094	2,290	49,301

III-8. FOOD BALANCE SHEET ON

Description	1970	1971	1972	1973	1974
(FISH AND SHELLFISH)(live weight base)					
Domestic production	7,886	8,374	8,675	9,072	8,966
For domestic consumption					
Fresh and frozen	2,022	2,047	2,157	2,253	2,311
Dried, salted and smoked	1,400	1,522	1,603	1,648	1,660
Kneaded	2,320	2,338	2,399	2,450	2,455
Fish sausage	242	247	245	247	182
Canned	78	195	112	154	214
Feeds	1,824	2,025	2,159	2,320	2,288
For exports	908	949	1,032	991	996
Fresh and frozen	190	200	265	341	321
Canned	588	555	624	551	509
Others for food use	13	14	15	14	17
Feeds	117	180	124	85	149
Total	8,794	9,323	9,707	10,063	10,106
Imports					
For food use	294	448	495	664	662
For feeds	451	103	270	415	117
Total	745	551	765	1,079	779
Domestic supply	8,631	8,925	9,440	10,151	9,889
For food use	6,356	6,797	7,011	7,416	7,484
Domestic production	6,062	6,349	6,516	6,592	6,822
Imports	294	448	495	664	662
For feeds	2,275	2,128	2,429	2,735	2,405
Domestic production	1,824	2,025	2,159	2,320	2,288
Imports	451	103	270	415	117

FISHERY PRODUCTS, 1970~1974

Unit: Thousand metric tons

Description	1970	1971	1972	1973	1974
(WHALE)					
Domestic production					
For domestic consumption	110	114	107	98	90
For exports	15	11	2	0	0
Total	125	125	109	98	90
Imports					
Total	15	18	18	25	29
Domestic supply					
For food use	110	114	107	98	90
For feeds	15	18	18	25	29
Total	125	132	125	123	119
(SEAWEED) (dried weight base)					
Domestic production					
For domestic consumption	99	112	109	127	133
For exports	5	5	3	4	5
Total	104	117	112	131	138
Imports					
Total	15	18	19	30	23
Domestic supply					
For food use	96	110	104	127	132
For feeds	18	20	24	30	24
Total	114	130	127	157	156
Per capita food supply (Unit: Kgs)					
Fish and shellfishes	61.3	64.7	65.4	68.2	68.0
Whales	1.1	1.1	1.0	0.9	0.8
Seaweeds	0.9	1.0	1.0	1.2	1.2

III-9. AVERAGE CONSUMPTION IN QUANTITY OF FISHERY

A). Workers household(Cities With population of 50,000 or over)

Unit: grams

Item	1970	1971	1972	1973	1974
Fresh and frozen					
Cod, Alaska pollack	1,208	1,131	1,058	1,018	1,071
Flounders, halibuts	2,817	2,932	2,816	2,468	2,714
Jack mackerel	4,177	4,246	3,611	2,968	3,046
Mackerels	4,431	4,029	3,171	2,676	3,327
Salmons, trouts	1,625	1,765	1,668	1,174	1,092
Sardines, anchovies	1,268	1,806	1,626	1,772	2,187
Saury	1,044	937	1,543	3,144	2,462
Sea breams	1,425	1,249	1,053	973	1,120
Shellfishes	4,935	5,015	4,690	4,085	5,339
Skipjack	775	612	906	1,079	1,070
Squids, cuttlefishes	7,646	6,320	7,627	7,420	6,131
Tunas, marlins	3,199	3,178	3,194	3,037	3,222
Yellowtail	1,978	1,988	2,044	2,202	2,105
Others	---	---	---	---	---
Processed fishery products					
Boiled and dried	897	793	761	727	674
Canned (case)	8.89	9.59	10.46	10.70	11.12
Cured	716	640	645	682	640
Dried "nori"	---	---	---	---	---
Dried "Kombu"and"Wakame" Kelp	1,724	1,735	1,795	1,872	1,936
Dried squids	274	219	278	334	257
Fish sausage	2,469	2,205	1,607	1,144	979
Kneaded	---	---	---	---	---
Salted salmons and trouts	3,019	3,269	3,332	3,454	3,648
Others	---	---	---	---	---
Whale meat	1,557	1,385	1,329	1,306	1,225
Beef	7,551	7,996	8,259	7,605	7,920
Pork	14,754	15,765	16,403	18,040	19,317
Chicken	9,040	9,065	9,770	10,401	10,652
Ham, sausage	7,552	7,941	8,858	9,199	8,533
Milk, eggs	---	---	---	---	---
Seasonings	873	813	753	748	600
Expence for dining out	---	---	---	---	---
Number of family member	3.95	3.93	3.90	3.88	3.86

PRODUCTS PER HOUSEHOLD, 1970~1974

B). Farm household

Unit: grams

Item	1970	1971	1972	1973	1974
Fishery products					
Fresh and frozen					
Cod, Alaska pollack	3,330	1,910	2,210	2,190	2,530
Flounders. halbuts	3,650	2,880	2,800	2,470	2,960
Jack mackerel	6,460	5,350	3,092	2,650	3,190
Mackerels	14,700	10,740	10,970	8,000	9,110
Salmons, trouts	---	---	---	---	---
Sardines, anchovies	2,510	3,270	3,010	3,450	4,350
Saury	2,090	1,770	2,960	5,860	4,340
Sea breams	1,270	1,030	930	620	830
Shellfishes	5,150	5,690	4,830	4,550	4,910
Skipjack	3,280	2,130	3,101	2,850	3,440
Squids, cuttlefishes	8,910	6,250	8,610	7,040	6,100
Tunas, marlins	3,860	2,860	2,750	2,310	2,800
Yellowtails	1,880	1,570	1,330	1,800	2,060
Others	---	---	---	---	---
Prossed fishery products					
Boiled and dried	3,450	3,000	2,890	2,480	2,500
Canned	4,890	4,490	3,720	3,310	3,770
Cured	310	320	270	290	330
Dried "nori"	---	---	---	---	---
Dried"Komb"and"Wakame" Kelp	2,370	1,940	2,050	2,350	2,330
Dried squids	500	420	490	560	470
Fish sausage	5,390	4,660	4,370	4,150	3,640
Kneaded	13,220	13,130	13,140	13,050	12,920
Salted salmons and trouts	3,590	3,790	3,670	3,640	4,150
Others	---	---	---	---	---
Whale meat	2,170	1,760	1,840	1,900	1,580
Beef	3,160	3,640	3,670	3,060	3,610
Pork	9,660	9,990	10,460	11,520	13,760
Chicken	7,960	9,010	8,640	9,590	9,880
Ham, sausage	3,500	3,970	3,870	4,020	3,920
Milk, eggs	---	---	---	---	---
Seasonings	1,040	1,110	1,240	1,190	1,160
Expense for dining out	---	---	---	---	---
Number of family member	4.84	4.74	4.66	4.62	4.59

III-10. AVERAGE CONSUMPTION IN VALUE OF FISHERY

A). Workers household (Cities With population of 50,000 or over)

Unit: yen

Item	1970	1971	1972	1973	1974
Net income	1,384,548	1,526,820	1,680,744	2,031,528	2,511,588
Food expense	361,499	387,646	415,798	477,772	588,322
Fishery products	53,207	58,777	63,238	70,973	89,989
Fresh and frozen	27,485	30,916	33,096	35,742	46,608
Cod, Alaska pollack	375	381	386	426	549
Flounders, halbuts	1,281	1,464	1,527	1,525	1,977
Jack mackerel	1,439	1,617	1,667	1,662	2,085
Mackerels	915	911	747	741	1,119
Salmons, trouts	1,047	1,153	1,137	957	1,080
Sardines, anchovies	379	582	544	591	793
Saury	555	472	698	1,251	1,076
Sea breams	1,079	1,105	1,029	1,056	1,381
Shellfishes	1,528	1,749	1,969	2,065	3,143
Skipjack	525	526	737	963	1,154
Squids, cuttlefishes	2,530	2,982	3,461	3,779	4,639
Tunas, marlins	3,158	3,633	3,929	4,198	5,436
Yellowtail	1,754	2,008	2,213	2,657	3,218
Others	10,920	12,333	13,052	13,871	18,958
Processed fishery products	24,936	27,068	29,308	34,315	42,334
Boiled and dried	481	503	488	509	619
Canned	1,021	1,178	1,348	1,441	1,799
Cured	681	726	807	1,003	1,207
Dried "nori"	3,325	3,315	3,560	4,102	4,364
Dried "Kombu" and "Wakame" Kelp	1,300	1,455	1,546	1,729	2,008
Dried squids	260	264	350	477	512
Fish sausage	679	620	451	366	438
Kneaded	3,033	3,307	3,418	3,908	4,886
Salted salmons and trouts	2,525	2,819	3,028	3,879	4,773
Others	11,631	12,881	14,312	16,901	21,728
Whale meat	786	793	834	916	1,047
Beef	9,275	10,505	11,819	14,252	17,035
Pork	12,203	13,453	15,021	18,604	22,078
Chicken	5,909	6,215	6,775	8,237	10,188
Ham, Sausage	5,531	6,100	7,038	8,488	9,846
Milk, eggs	26,413	26,548	27,366	29,644	37,866
Seasonings	1,323	1,224	1,092	1,072	1,085
Expense for dining out	39,115	42,978	48,984	58,085	70,143
Number of family member	3.95	3.93	3.90	3.88	3.86

PRODUCTS PER HOUSEHOLD, 1970～1974

B). Farm household

Unit: yen

Item	1970	1971	1972	1973	1974
Net income	1,393,200	1,537,700	1,852,900	2,322,100	2,945,900
Food expense	353,500	377,700	407,100	481,000	599,700
Fishery products	47,211	51,231	58,521	69,386	89,216
Fresh and frozen	23,289	25,100	29,220	33,676	45,342
Cod, Alaska pollack	599	479	902	720	989
Flounders, halibuts	1,154	1,008	1,172	1,216	1,754
Jack mackerel	1,478	1,386	1,232	1,163	1,558
Mackerels	2,395	1,965	1,954	1,917	2,585
Salmons, trouts	---	---	---	---	---
Sardines, anchovies	557	680	782	954	1,270
Saury	576	479	902	1,769	1,559
Sea breams	742	857	701	754	1,136
Shellfishes	629	894	833	1,177	1,722
Skipjack	1,082	882	1,443	1,614	2,168
Squids, cuttlefishes	2,397	2,192	3,186	3,410	4,028
Tunas, marlins	2,878	2,847	3,487	3,521	5,073
Yellowtail	1,289	1,234	1,232	1,860	2,630
Others	7,513	10,197	11,394	13,601	18,870
Processed fishery products	23,127	25,280	28,442	34,530	42,650
Boiled and dried	1,458	1,505	1,538	1,741	2,157
Canned	1,080	1,047	1,070	1,234	1,808
Cured	345	406	437	549	687
Dried "nori"	2,322	2,642	2,947	3,814	4,282
Dried "Kombu"and"Wakame" Kelp	1,507	1,571	1,784	2,295	2,746
Dried squids	379	523	739	972	1,073
Fish sausage	1,509	1,309	1,286	1,538	1,760
Kneaded	3,224	3,512	3,626	4,855	5,886
Salted salmons and trouts	2,239	2,656	2,819	3,488	4,663
Others	9,064	10,109	12,196	14,044	17,588
Whale meat	795	851	859	1,180	1,224
Beef	3,467	4,191	5,166	5,892	7,613
Pork	6,260	7,056	8,558	11,053	14,470
Chicken	3,675	4,226	4,663	6,492	7,724
Ham, sausage	2,221	2,635	2,946	3,628	4,265
Milk, eggs	24,038	26,094	28,201	22,376	30,416
Seasonings	1,430	1,482	1,652	1,675	1,832
Expense for dining out	19,515	20,763	24,633	28,119	37,207
Number of family member	4.84	4.74	4.66	4.62	4.59

Ⅳ. ECONOMY OF FISHERY MANAGEMENT UNIT

Ⅳ-1. NATIONAL AVERAGE OF FISHERIES HOUSEHOLD ECONOMY, 1970～1974

Ⅳ-1 NATIONAL AVERAGE OF FISHERIES HOUSEHOLD ECONOMY

Items	Unit	1970	1971	1972	1973	1974
Number of family members	member	5.0	4.9	4.8	4.7	4.6
Number of non-powered fishing boats used	"	0.3	0.3	0.3	0.3	0.3
Number of powered fishing boats used	"	1.0	1.0	1.3	1.3	1.2
Tonnage of powered fishing boats used	ton	2.0	2.1	2.2	2.2	2.2
Number of fishing days	"	152	152	148	145	145
Number of workers on the sea	"	195	196	478	467	448
Working hours on the sea	hours	2 903	2 844	2 768	2 685	2 552
Catches	kg	9 696	10 683	9 880	10 108	9 133
Price of fish cought	Yen/kg	158	168	190	220	289
Fishery earning	1000yen	1 850.1	1 853.6	1 933.3	2 292.5	2 641.3
Non-fishery earning	"	143.3	171.9	176.4	230.9	288.3
Non-business earing	"	459.3	604.2	623.4	894.6	1 057.4
Fishery expenditure	"	653.4	745.6	806.2	961.8	1 162.8
Employees wages	"	178.0	203.9	205.6	235.7	256.8
Maintenance of fishing boats	"	53.3	62.8	66.4	80.9	104.7
Expenditure for fishing gears	"	81.9	87.1	98.9	119.1	139.6
Oil	"	54.3	61.7	69.0	86.2	153.8
Miscellaneous facilities	"	9.7	11.3	10.4	10.8	12.8
Deprcciation	"	124.0	142.2	161.1	192.8	216.8
Non fishery business expenditure	"	60.8	73.9	75.5	106.2	139.7
Non-business expenditure	"	25.0	28.8	39.7	45.3	58.7
Household expenditure	"	1 022.1	1 166.3	1 210.9	1 408.5	1 718.4
Food and drinks	"	339.0	362.9	374.3	417.3	517.0
Clothing	"	101.9	115.8	117.0	135.3	159.8
Housing	"	120.9	134.0	117.4	145.2	160.3
Heat, light and water	"	40.2	43.7	47.5	54.3	69.6
Education	"	27.2	33.6	36.8	36.8	36.9
Reading and recration	"	55.0	57.0	62.4	67.0	86.8
Household goods and furnitures	"	93.6	100.6	91.4	105.5	124.1
Heacth and sanitation	"	55.7	62.8	65.0	71.8	92.6
Gifts and remittances	"	89.6	111.5	122.3	145.6	188.7
Taxes, public chargesand obligations	"	75.2	92.4	118.7	136.2	174.7
Income of fishery household	"	1 443.4	1 781.4	1 811.6	2 304.8	2 625.8
Business income	"	1 009.2	1 206.0	1 227.9	1 455.5	1 627.0
Fishery income	"	926.7	1 108.0	1 127.0	1 330.8	1 478.4
Non-fishery income	"	82.5	98.0	100.9	124.7	148.6
Non-business income	"	434.2	575.4	583.7	849.3	998.8
Surplus of fishery household economy	"	346.1	522.8	482.0	760.2	732.7
Property						
Fixed assets	"	2 185.5	2 343.9	2 657.4	3 220.0	3 739.1
Land	"	226.2	233.9	275.3	400.8	434.0
Building	"	1 207.3	1 300.0	1 475.1	1 709.0	2 037.9
Hull of fishing boats	"	247.5	250.7	297.7	371.3	433.7
Engins of fishing boats	"	273.7	291.6	323.3	379.4	416.8
Fishing nets and long lines	"	97.1	106.7	108.7	125.1	146.5
Non-fixed assets	"	1 156.5	1 477.4	1 797.3	2 112.6	2 688.9
Debts	"	326.0	425.0	489.0	647.1	835.2

Note 1) Fishery household in this table refers to the household engaging in fishing with less than 10 tons fishing boat. The data show the average per fishery household.

2) Income of fishery household = Fishery income + Non-fishery business income + Non-business income.
Surplus of fishery household economy = Income of fishery household - (Taxes, public charges and obligations + Household expenditure)

3) Duration of this statistics is for a calendar year. Proparty is accounted at the begining of the year.

Ⅳ-2. NATIONAL AVERAGE OF SMALL AND MIDDL SIZE FISHERY ENTERPRIZE ECONOMY, 1970～1974

Items	Unit	1970	1971	1972	1973	1974
Gross tonnage of fishing boats used	Ton	103	100	99	96	105
Number of workers on the boat	Person	20	19	18	17	17
Catch	Ton	707	764	795	930	801
Earnings from fishery	1000yen	52 664	61 207	64 467	82 175	90 248
Costs of fishery management	"	47 702	55 751	59 368	73 701	87 073
Ordinary costs	"	38 326	45 482	47 801	59 790	73 260
Employees wages	"	19 307	23 308	23 779	30 025	33 777
Maintenance of fishing boats	"	3 408	3 818	4 357	5 757	7 153
Expenditure for fishing gears	"	2 249	2 645	2 852	3 373	4 247
Oil	"	3 329	4 109	4 532	5 645	10 685
Bait	"	1 634	1 894	2 136	2 270	2 626
Ice	"	615	695	724	883	983
Fish container	"	905	951	1 030	1 457	2 152
Miscellaneous materials	"	478	592	587	717	960
Miscellaneous facilities	"	83	124	129	157	196
Rents and charges	"	1 075	1 033	1 051	1 362	1 472
Brokerage of the catch	"	2 144	2 610	2 606	3 360	3 675
Costs for business	"	2 361	2 636	3 020	3 686	4 283
Other costs	"	738	1 067	997	1 100	1 051
Depreciation	"	8 891	9 733	11 005	13 157	12 904
Fishery net-income	"	4 962	5 456	5 100	8 473	3 175
Income of management unit	"	4 319	4 727	4 952	7 609	2 578
Taxes, public charges and obligations	"	2 522	3 134	3 672	4 078	3 368
Assets	"	58 614	65 915	73 373	86 692	99 176
Fixed assets	"	34 152	37 179	41 000	48 874	57 378
fixed assets for fishery	"	26 727	29 197	32 396	38 058	41 540
Non-fixed assts	"	24 462	28 737	32 374	37 818	41 798
Liabilities	"	52 202	58 898	64 934	77 178	87 072
Own capital invested	"	6 412	7 018	8 441	9 514	12 103
Net profit	"	1 797	1 593	1 280	3 531	Δ 816
Interest on liabilities	"	3 507	3 690	4 442	4 969	5 593
Sales profit rate	%	9.4	8.9	7.9	10.3	3.5
Costs for physical expenditure	1000yen	21 593	24 561	27 353	33 413	41 906
Added value	"	31 071	36 645	37 115	48 761	36 941
Added value per worker	"	1 531	1 939	2 090	2 838	2 173
Wage per worker	"	951	1 197	1 339	1 748	1 717
Rate of capital invested per worker	"	1 317	1 545	1 824	2 215	2 963
Ratio of own capital invested	%	10.9	10.6	11.5	11.0	12.2
Rate of net-profit per capital invested	"	3.1	2.4	Δ 1.7	4.1	Δ 0.8

Note: 1) Small and middle size fishery enterprize refers to the enterprize engaging in fishing with fishing boats of 10 gross tonnage and over but excluding the fishing company with a capital paid of 100 million yen and over.
2) Data show an average per the fishery management unit.
3) Costs of fishery management = Ordinary costs + depreciation + estimated family wages, Fishery net-income = earnings from fishery - costs of fishery management, Net profit = income of management unit-taxes, public charges and obligations, Sales profit rate = fishery net-income ÷ earnings from fishery.

REFERENCE TABLES

1. INDICES OF FISHERY PRODUCTION, 1970~1974

1) Indices of Production by Spacies

Group	1970	1971	1972	1973	1974
Fisheries total	100.0	104.4	107.0	122.1	122.9
Marine fisheries	100.0	104.8	106.7	117.1	114.1
Fishes	100.0	107.9	107.4	124.2	118.6
Other marine animals	100.0	94.6	104.7	96.4	102.8
Shellfishes	100.0	87.5	101.7	88.6	93.6
Seaweeds	100.0	116.2	109.9	103.9	92.4
Cultures in marine water	100.0	105.8	117.1	165.6	190.4
Whaling	100.0	97.4	82.7	75.1	60.9
Inland water fisheries	100.0	104.2	100.2	110.8	108.5
Cultures in inland water	100.0	93.3	95.0	107.0	116.7

2) Indices of Production by Type of Fisheries, 1970~1974

Group	1970	1971	1972	1973	1974
Fisheries total	100.0	104.4	107.0	122.1	122.9
Marine fisheries and culture in marine water	100.0	105.0	108.2	124.2	125.2
Distant water fisheries	100.0	102.5	101.6	105.3	99.1
Off-shore fisheries	100.0	107.0	111.4	127.1	121.5
Coastal fisheries	100.0	104.0	104.9	99.0	102.9
Fishery using fishing boat	100.0	103.5	104.8	68.7	79.4
Set net and beach seine fisheries	100.0	106.5	105.4	120.0	129.1
Cultures in marine water	100.0	105.8	117.1	165.6	190.4
Coastal fisheries and cultures in marine water	100.0	104.7	109.2	122.2	133.3
Inland water fisheries and cultures in inland water.....	100.0	97.1	96.5	108.3	113.9
Whaling	100.0	97.4	82.7	75.1	60.9

Note : 1) These indicate factory ship, distant water trawls, trawls west of 128°30'E(including otter trawls),tuna long line on distant water, skipjack pole-and-line on distant water, North Pacific Ocean tanner crab fishing, North Pacific Ocean long line and gill net.

2) These indicate fisheries operating with powered boat of more than 10 gross tonnage excepting for fisheries in distant water, shellfish collecting, seaweeds collecting, set net fishing and beach seine fishing.

3) These indicate fishing without using fishing boat, fishing with non-powered boat, fishing with powered boat less than 10 gross tonnage and include shellfish collecting, seaweeds collecting, set net and beach seine.

4) These indicate fisheries in coastal water in wide sence, including fisheries in coastal water and culture in marine water.

2. CATCH BY COUNTRY OF THE WORLD, 1970~1974

Unit : Thousand tons

Country Names	1970	1971	1972	1973	1974
Total	69,985	70,193	65,636	66.084	69,845
Japan	9,371	9,959	10,275	10,748	10,773
U.S.S.R.	7,252	7,337	7,757	8,619	9,236
China	6.255	6.880	6,880	6,880	6,880
Peru	12,535	10,529	4,724	2,367	4,150
U.S.A.	2,777	2,820	2,652	2,670	2,744
Norway	2,980	3,075	3,163	2,975	2,645
India	1,756	1,852	1,637	1,958	2,255
Republic of Korea	879	1,046	1,322	1,662	2,001
Denmark	1,227	1,401	1,443	1,465	1,835
Thailand	1,448	1,587	1,679	1,692	1,626
Spain	1,539	1,505	1,617	1,570	1,511
South Africa	1,212	1,162	1,119	1,334	1,415
Indonesia	1,229	1,245	1,268	1,300	1,312
Philippines	1,004	1,044	1,126	1,245	1,291
Chile	1,181	1,481	792	664	1,127
Canada	1,389	1,290	1,169	1,157	1,027
Iceland	734	685	727	902	945
France	784	758	796	823	808
D.P.R. Korea	800	800	800	800	800
South Viet-Nam	517	588	678	714	714
Others	14,358	14,630	14,804	15,203	14,750

3. CATCH BY SPECIES OF THE WORLD, 1970~1974

Unit : Thousand tons

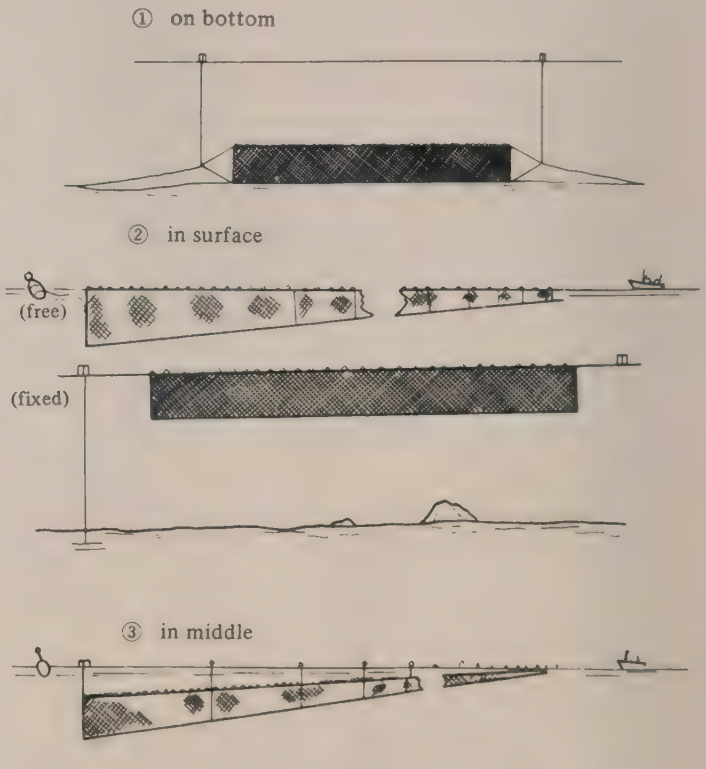
Species	1970	1971	1972	1973	1974
Grand Total	69,985,200	70,193,300	65,636,100	66,084,300	69,844,600
Carps, barbels and other cyprinids	350,200	359,900	424,600	440,800	430,840
Tilapias and other cichlids	196,700	202,300	205,300	236,900	233,109
Niscellaneous freshwater fishes...	7 553,700	8,071,500	8,131,900	8,241,700	8,390,111
Sturgeons, padolefishes, etc.	21,200	22,400	23,800	23,400	24,408
River eels	44,400	44,800	44,900	51,900	52,224
Salmons, trouts, smelts, etc.	2,105,200	2,185,000	2,469,400	2,619,900	2,449,090
Shads, milkfishes, etc.	898,900	882,200	798,000	789,400	748,512
Miscellanedus diadronous fishes...	45,600	51,000	70,100	77,300	78,385
Fldunders, halibuts, soles,etc. ..	1,306,600	1,384,000	1,298,700	1,244,800	1,178,444
Cods, nakes, haddocks, etc.	10,528,800	10,677,300	11,454,800	11,938,900	12,696,907
Redfishes, basses, concers,etc. ..	3,823,900	3,906,400	3,964,800	4,061,300	4,587,072
Jacks,mullets,sauries, etc.	2,420,300	3,001,100	2,897,900	3,445,800	3,312,297
Herrings, sardines, anchovies, etc.	21,584,500	19,577,700	13,178,100	11,237,200	13,730,828
Tunas, bonitds,bilfishes, etc. ...	1,499,600	1,620,300	1,753,600	1,851,100	1,875,334
Mackerels,sndeks,cutlassfishes,etc.	3,147,700	3,247,700	3,184,700	3,424,200	3,621,363
Sharks, rays, chimaeras, etc.	510,900	516,700	554,700	606,400	557,669
Miscellaneous marine fishes	7,979,000	8,503,500	8,793,400	9,193,100	9,033,819
Freshwater crustaceans	54,700	55,900	53,900	58,600	49,646
Sea-spiders, crabs, etc.	390,400	370,100	384,500	382,100	411,697
Lobsters, spiny rock lobsters, etc.	90,900	97,500	95,700	95,300	95,396
Squat-lobsters, nephrops, etc. ...	75,700	73,800	73,800	65,800	64,578
Shrimps, prawns, etc.	947,000	1,004,800	1,066,600	1,172,800	1,241,876
Krill,planktonic crustaceans, etc.	4,700	9,600	2,500	00	1,273
Miscellaneous marine crustaceans .	75,800	79,600	73,100	83,200	72,254
Freshwater molluscs	58,800	37,300	48,600	47,500	46,559
Abalenes, winkles,conchs, etc. ...	48,600	52,400	56,500	62,200	54,454
Dysters	708,500	725,100	770,900	776,800	695,736
Mussels	333,200	377,800	427,600	417,400	343,878
Scallops, pectens, etc.	144,500	156,900	184,600	205,000	234,825
Clans,cockles,arkshells, etc.....	676,800	615,000	643,700	652,700	716,332
Squids,cuttlefishes,dctopuses,etc.	948,100	906,000	1,109,200	1,055,000	1,058,130
Miscellaneous marine molluscs	362,400	326,100	327,300	230,000	287,572
Porpoises,dolphins, etc.	3,700	4,600	4,700	5,100	5,100
Eared seals,hair-seals,walruses, etc.	...	...	...	...	...
Miscellaneous aquatic mammals.....	1,600	1,000	1,800	1,700	2,041
Frdgs and other amphibians	900	800	1,200	1,100	1,174
Turtles and other reptiles	6,900	5,000	3,100	7,600	5,929
Sea-squirts and other tunicates...	5,200	3,700	4,000	3,300	4,973
Horseshoe crabs and other arachnoids	00	00	00	00	0
Sea-urchins, sea-cucumbers, etc.	52,100	52,200	44,100	48,600	45,758
Miscellanedus aquatic invertebrates	11,900	9,000	8,700	8,600	6,013
Pearls, mother-of-pearl,shells,etc.	7,500	7,700	30,200	18,000	54,539
Corls	00	00	00	00	9
Sponges	200	300	300	400	295
Aquatic bird guand, eggs,etc.	56,500	26,800	51,000	37,900	24,863
Brown seaweeds	138,000	185,600	506,500	586,400	696,567
Red seaweeds	380,700	575,500	522,800	450,300	525,659
Green seaweeds and other algae ...	1,500	1,100	700	900	2,237
Miscellaneous aquatic plants	81,200	80,500	80,800	95,400	94,834

APPENDIX

1. CLASSIFICATION OF MARINE FISHERY TYPE

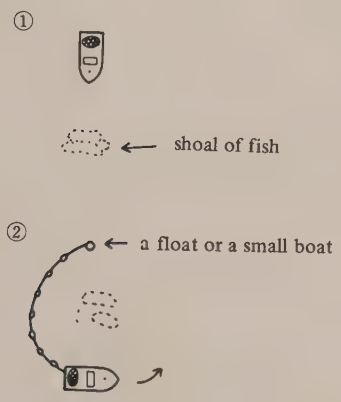
Classification	Classification shown in this bulletin	Classification published by Ministry of Agriculture and Forestry
A. Gill nets	King crab gill net Salmon drift gill net Gill nets	Factory ship type king crab gill net Factory ship type salmon drift gill net (Distant waters) Salmon drift gill net of one boat operation. (Coastal) Sardine drift gill net. Herring gill net and other.

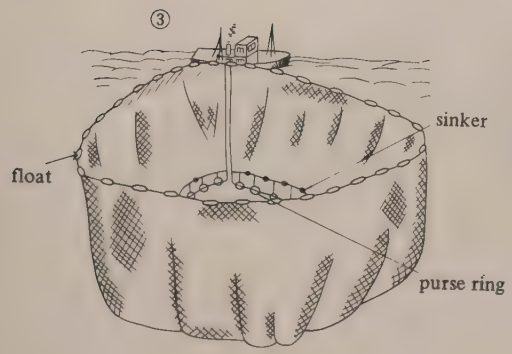
Salmon drift gill net



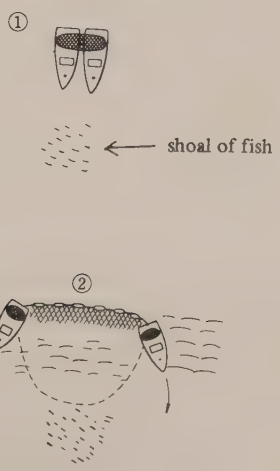
B. Purse seines	Purse seines	Purse seine of one-boat and two-boats operation. Semi-surrounding net. Other surrounding nets.

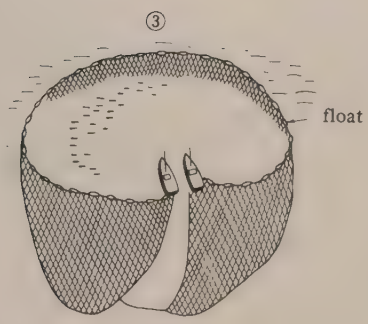
(1) One-boat operation





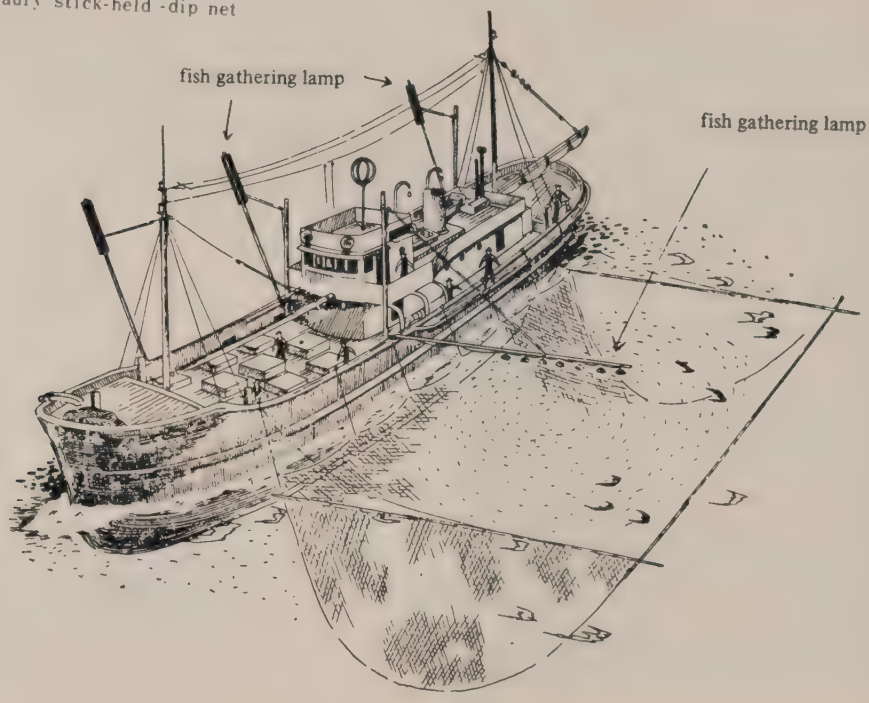
(2) Two-boats operation





C. Lift nets	Saury stick-held dip net Other lift nets	Saury stick-held dip net Atka mackerel square lift net Other lift nets

(1) Saury stick-held -dip net



(2) Other lift nets

D. Trawls	Large trawls	Factory ship type trawl (Bering sea) Factory ship type trawl (Okhotsk sea) Otter trawl on Distant waters Otter trawl in Bering sea Otter trawl in southern water Otter trawl, west of 128°30'E in East China Sea
	Medium trawls	Large trawl, west of 128°30'E in East China Sea Medium trawl of one-boat and two boats operation.
	Small trawls	Small trawls

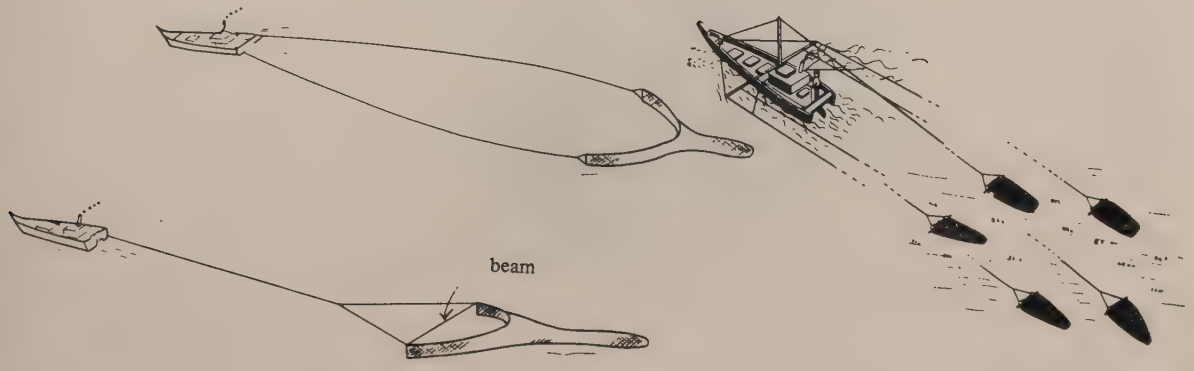
(1) Large trawls (otter trawl)

(2) Medium trawls

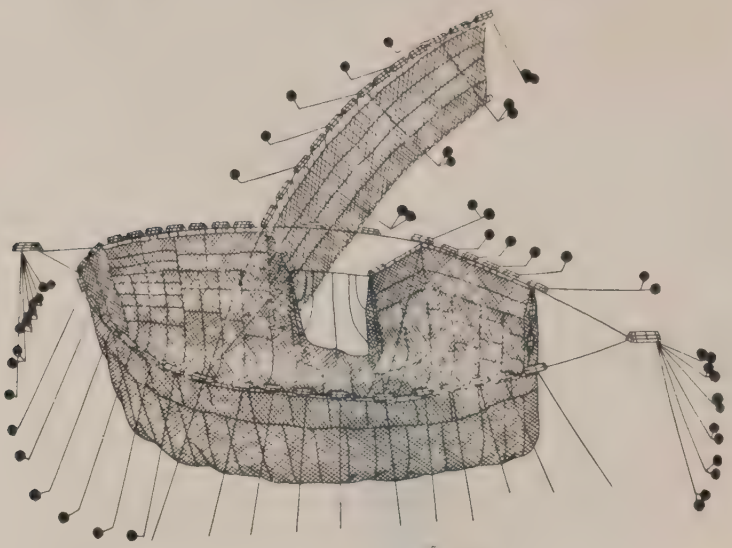
① one-boat operation

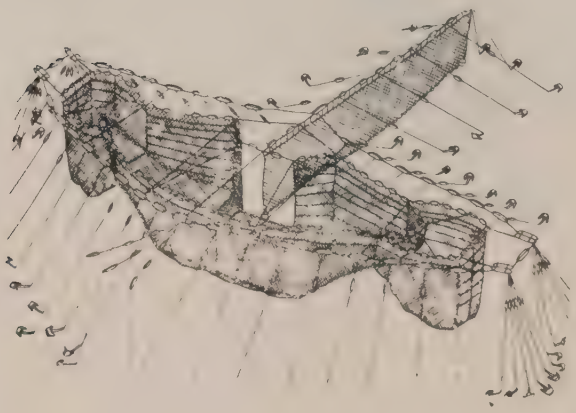
② two-boats operation

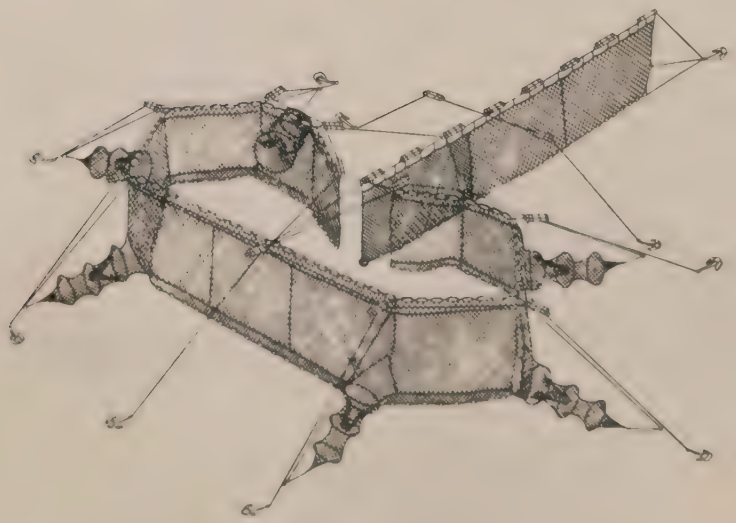
(3) small trawls



E. Set nets	Set nets	Large set nets Small set nets

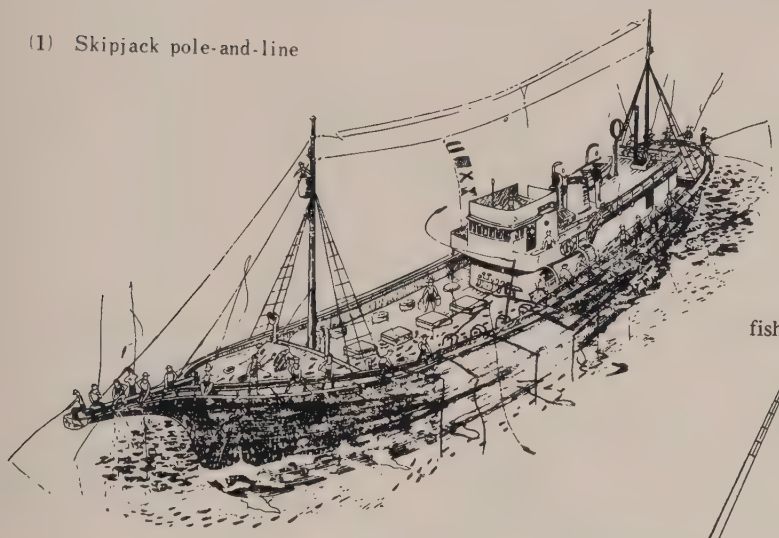






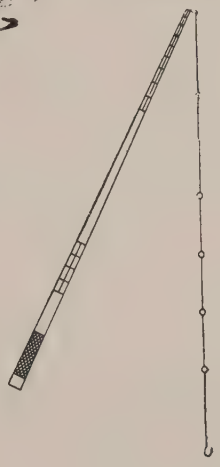
F. Anglings	Skipjack pole-and-line Squid angling Other anglings	Skipjack pole-and-line (Distant waters and Coastal) Squid angling Mackerel pole-and-line, other kind of mackerel anglings and other anglings.

(1) Skipjack pole-and-line



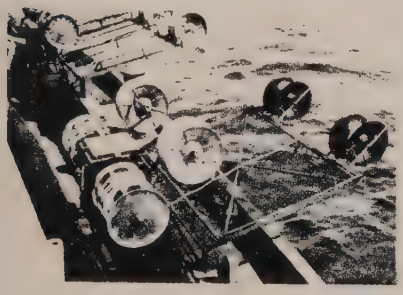
automatic skipjack angling machine

fishing rod

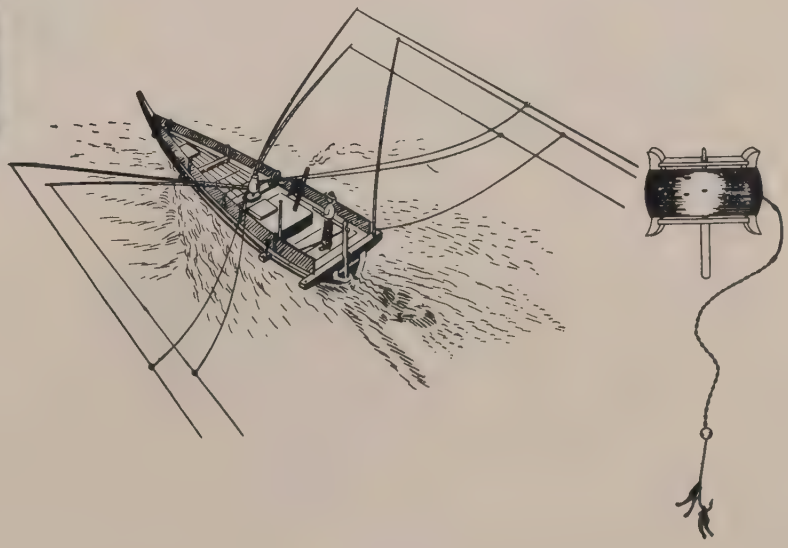


(2) Squid angling

Automatic squid angling machine



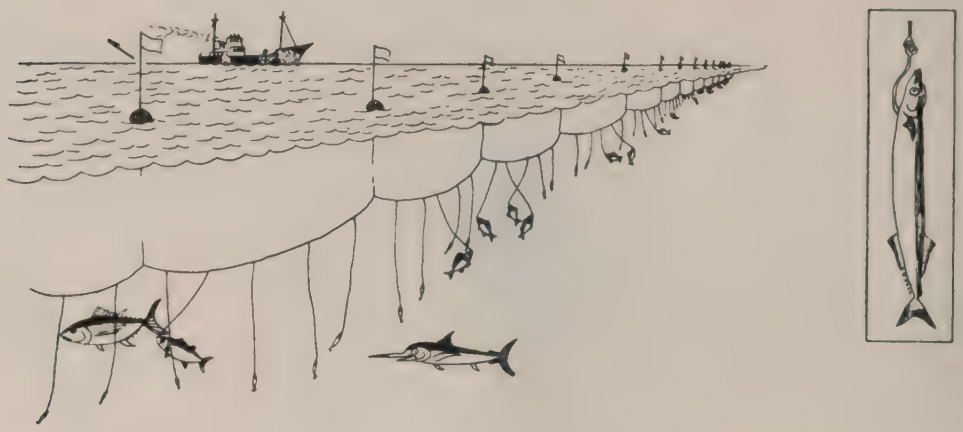
(3) Other anglings (trolling)



artificial bait

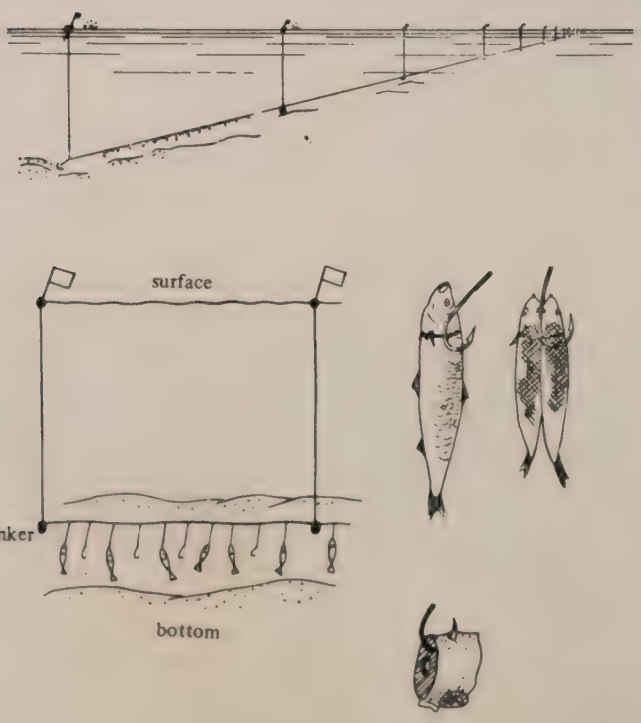
G. Long lines	Tuna long line	Factory ship type tuna long line Tuna long line operated in Atlantic Ocean. Tuna long line based at foreign ports. Tuna long line based at domestic ports.
	Other long lines	Alaska pollack long line, Salmon long line and other.

(1) Tuna long line



(2) Other long lines

① Alaska pollack long line

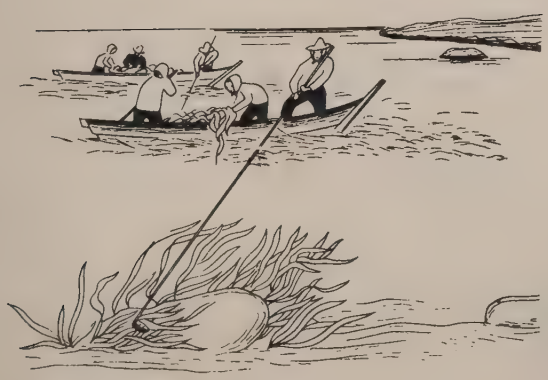


② Sea beam long line

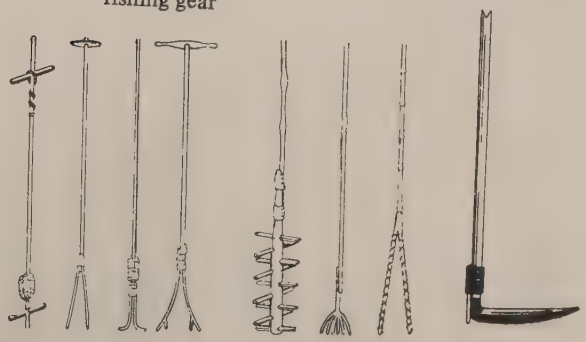
H. Collectings	Shellfish collectings Seaweed collectings	Shellfish collectings. Seaweed collectings.

(1) Shellfish collectings

(2) Seaweed collectings

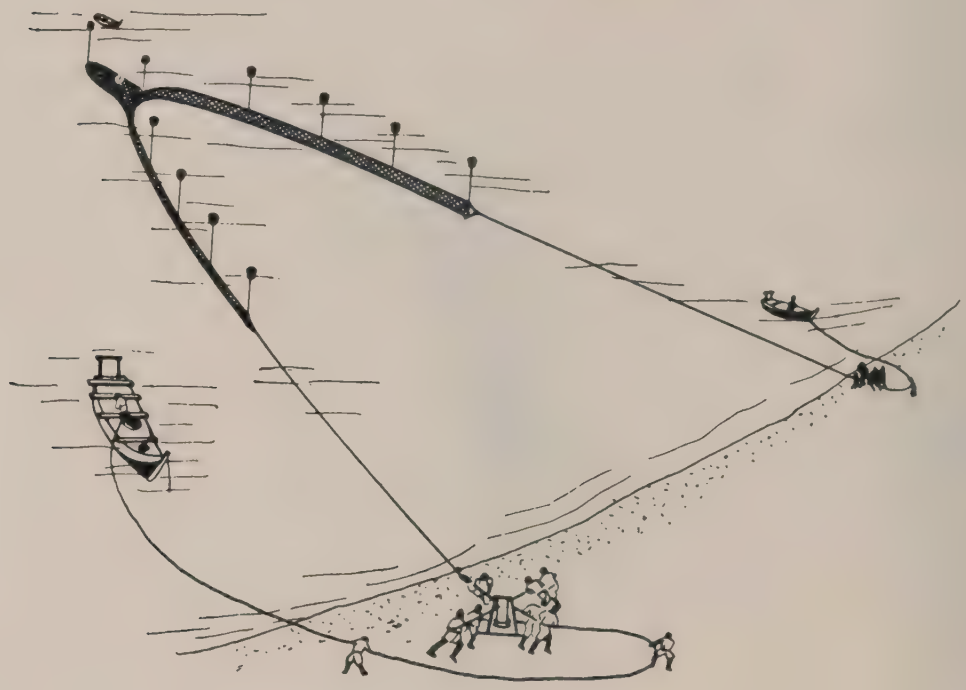


fishing gear

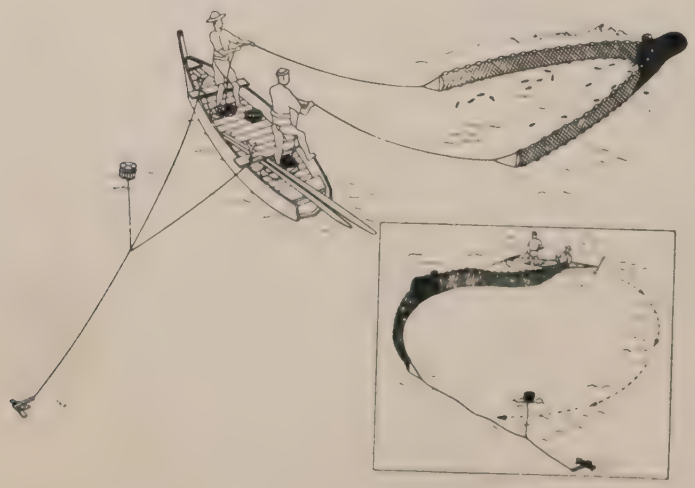


I. Other fisheries	Others	Beach seine, "Patchi" and other haul seine. Dart, other fisheries.

(1) Beach seine



(2) Other haul seine ("Patchi" is a kind of haul seine.)



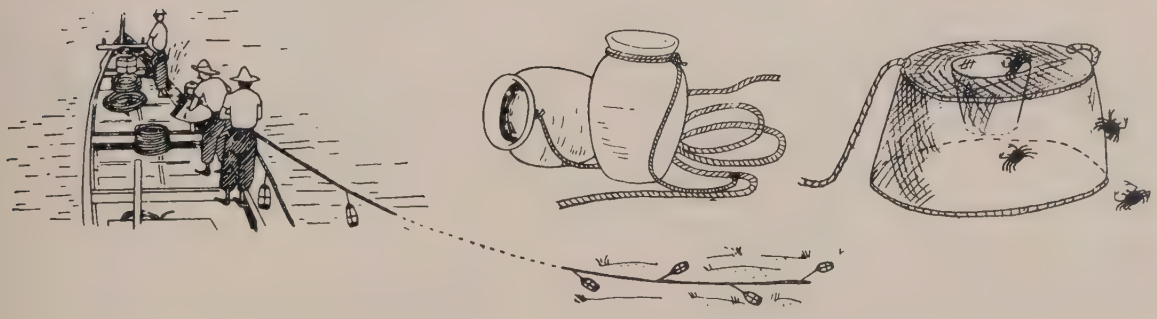
(3) Dart

(4) Other fisheries (pot, diving, etc)

pot

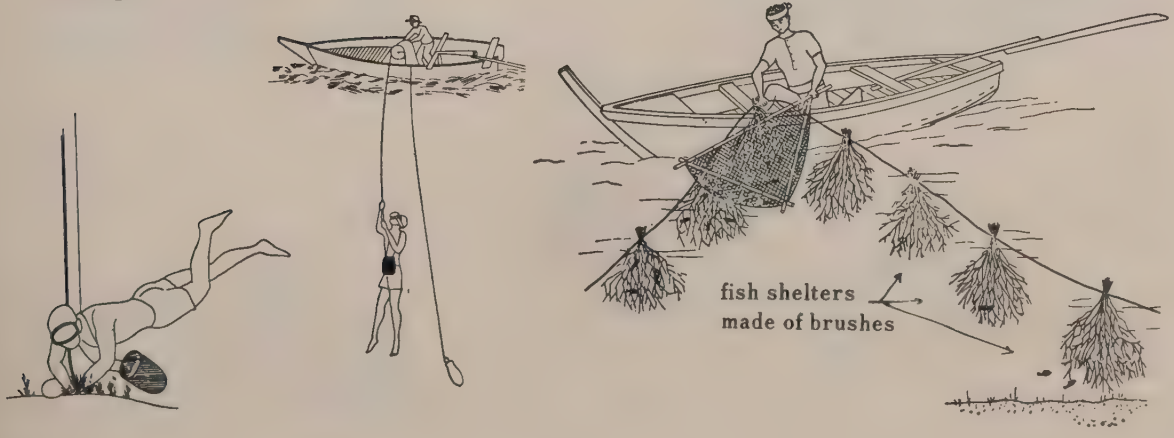
(octopus pot)

(crabs pot)



"Shiba zuke"

Diving

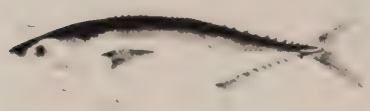


2. ILLUSTRATION OF IMPORTANT FISHES IN JAPAN

1) Sea Fisheries

A. Fishes

Bluefin tuna (English name)
Maguro (Japanese name)
Thunnus thynnus orientalis (Scientific name)

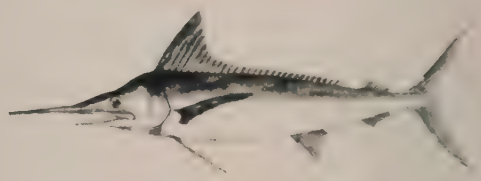


Albacore
Binnaga
Thunnus alalunga

Bigeye tuna
Mebachi
Thunnus obesus

Yellowfin tuna
Kiwada
Thunnus albacares

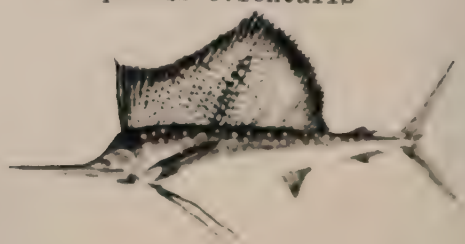
Striped marlin
Makajiki
Tetrapturus audax



Broadbill swordfish
Mekajiki
Xiphias gladius

Blue marlin
Kurokajiki
Makaira nigricans

Sailfish
Bashokajiki
Istiophorus orientalis



Skipjack
Katsuo
Katsuwonus pelamis

Frigate mackerel
Hirasoda
Auxis thazard

Great blue shark
Yoshikirizame
Glyphis glaucus

Chum salmon
Sake (Shirozake)
Oncorhynchus keta

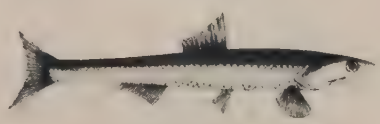
Cherry salmon
Sakuramasu
Oncorhynchus masou var. masou

Herring
Nishin
Clupea pallasi

Sardine
Maiwashi
Sardinops melanosticta

Round herring
Urumeiwashi
Etrumeus micropus

Anchovy
Katakuchiiwashi
Engraulis japonica



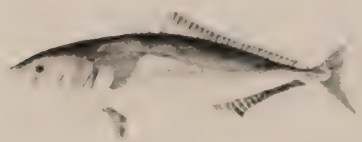
Jack mackerel
Maaji
Trachurus japonicus

Scad
Muroaji
Decapterus Muroadsi

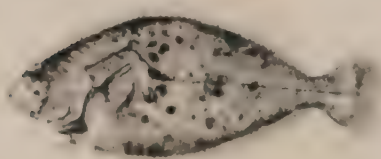
Mackerel
Masaba
Scomber japonicus

Saury (Saury-pike)
Sanma
Cololabis saira

Yellowtail
Buri
Seriola quinqueradiata



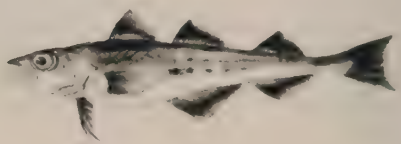
Bastard halibut
Hirame
Paralichthys olivaceus



Dab (Flat fish)
Magarei
Limanda herzensteini

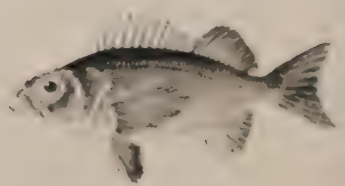
Cod
Madara
Gadus macrocephalus

Alaska pollack
Suketodara
Theragra chalcogramma

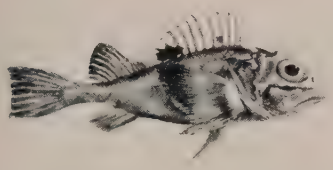


Atka mackerel
Hokke
Pleurogrammus azonus

Rock fish
Sangomenuke
Sebastes flammeus



Rock fish
Kichiji
Sebastolobus macrochir

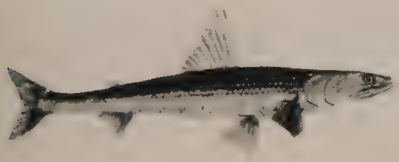


Sand fish
Hatanata
Arctoscopus japonicus

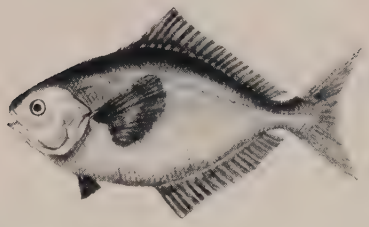
Deep sea smelt
Nigisu
Algentina semifasciata

Yellow croaker
Kiguchi
Pseudosciaena manchurica

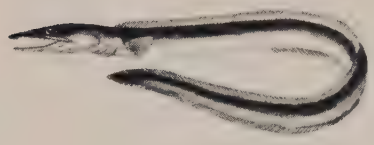
Lizard fish
Maeso
Saurida argyrophanes



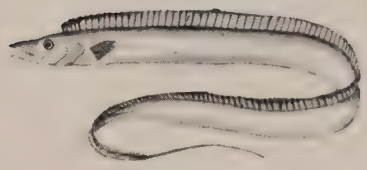
Butter fish
Ibodai
Psenopsis anomala



Sharp toothed eel
Hamo
Muraenesox cinereus

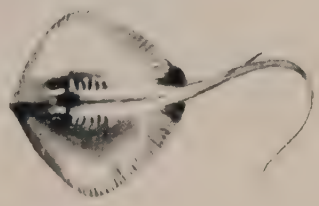


Hairtail
Tachiuo
Trichiurus lepturus

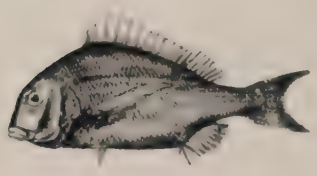


Gurnard
Hobo
Chelidonichthys kumu

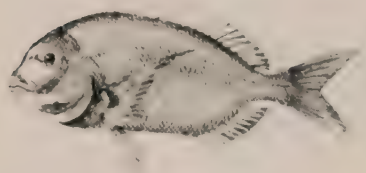
Stingray
Akaei
Dasyatis akajei



Red sea bream
Madai
Chrysophrys major



Crimson sea bream
Chidai
Evynnis japonica



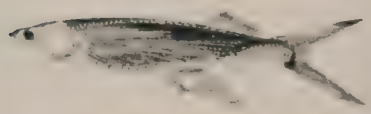
Yellow sea bream
Kidai
Taius tumifrons

Black sea bream
Kurodai
Mylio macrocephalus

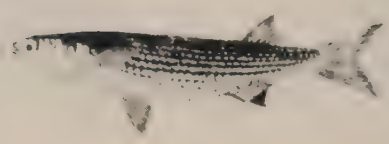
Spanish mackerel
Sawara
Scomberomorus niphonius

Dolphin fish
Shiira
Coryphaena hippurus

Flyingfish
Tobiuo
Prognichthys agoo



Mullet
Bora
Mugil cephalus



Common sea bass
Suzuki
Lateolabrax japonicus

Sand lance
Ikanago
Ammodytes personatus

B. Crustacea

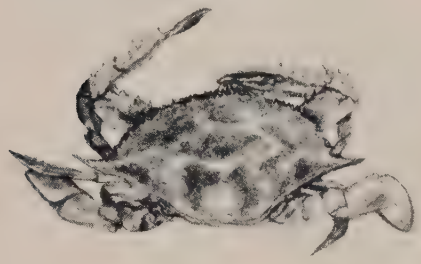
Spiny lobster
Iseebi
Panulirus japonicus

Prawn
Kurumaebi
Penaeus japonicus

King crab
Tarabagani
Paralithodes camtschaticus

Queen crab, Tanner crab
Zuwaigani
Chionoecetes opilio

Blue crab
Gazami
Neptunus trituberculatus

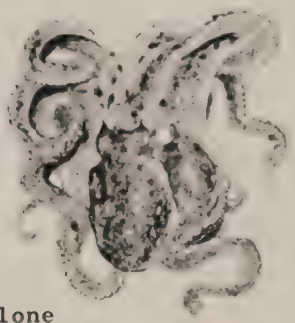


C. Molluscs

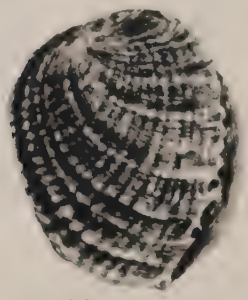
Common squid
Surumeika
Ommastrephes sloani pacificus

Cuttlefish
Maika
Sepiella maindronide

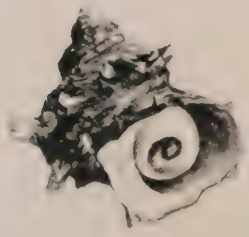
Octopus (Devilfish)
Madako
Octopus vulgaris



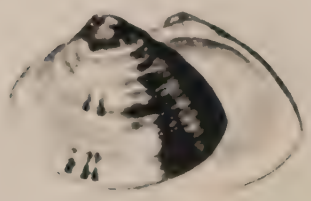
Abalone
Awabi
Haliotis gigantea



Top shell
Sazae
Turbo cornutus

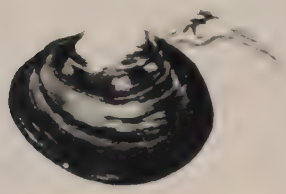


Hard clam
Hamaguri
Meretrix lusoria

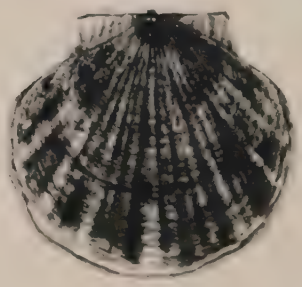


Short necked clam
Asari
Venerupis Philippinarum

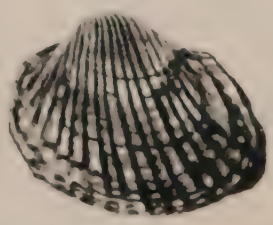
Hen clam
Hokkigai
Mactra sachalinensis



Common scallop
Hotategai
Pecton yessoensis

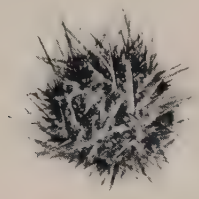


"Mogai" clam
Sarubo
Anadara subcrenata

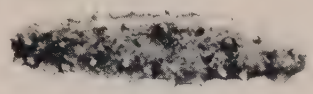


D. Echinodermata

Sea urchin
Murasakiuni
Heliocidaris crassispind



Sea cucumber
Manamako
Stichopus japonicus



E. Marine mammals

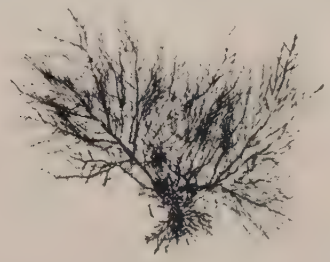
(Dorphin
Sujiiruka
Delphinus delphis de 1 phis

Sea lion
Ashika
Zalophus lobatus

F. Sea weeds

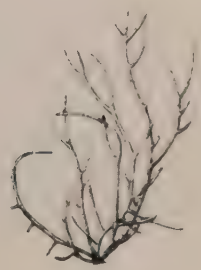
Kelp
Makonbu
Laminaria japonica

Agar-agar
Tengusa (Makusa)
Gelidium Amansii



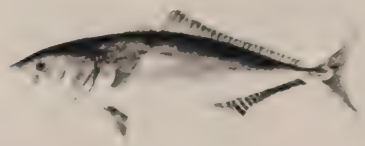
Seaweed
Wakame
Undaria pinnatifida

Seaweed
Honfunori
Gloiopeltis tenax



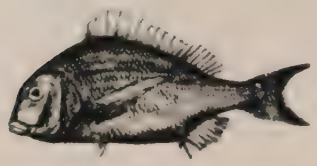
2) Sea Cultures

Yellowtail
Buri
Seriola quinqueradiata

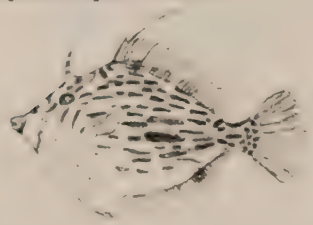


Globe fish
Torafugu
Fugu rubripes

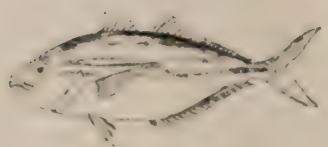
Red sea bream
Madai
Chrysophrys major



File fish
Kawahagi
Stephanolepis cirrhifer

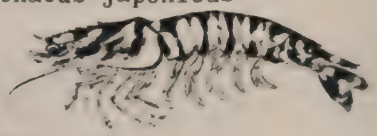


Yellow jack
Shimaaji
Caranx delicatissimus

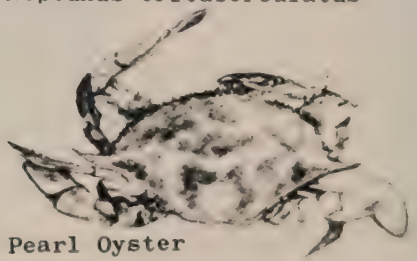


Octopus (Devilfish)
Madako
Octopus vulgaris

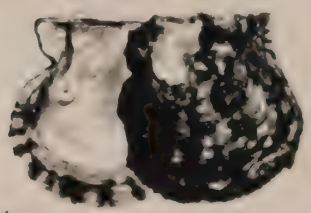
Prawn
Kurumaebi
Penaeus japonicus



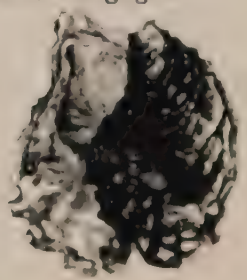
Blue crab
Gazami
Neptunus trituberculatus



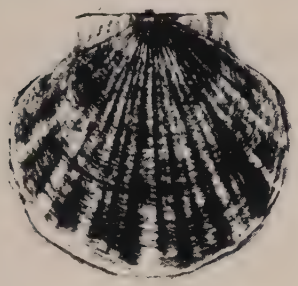
Pearl Oyster
Akoyagai
Pinctada martensii



Oyster
Magaki
Crassostrea gigas



Common scallop
Hotategai
Pecton yessoensis



Seaweed
Wakame
Undaria pinnatifida

Laver (Seaweed"Nori")
Asakusanori
Porphyra tenera

Kelp
Makonbu
Laminaria japonica

3) Inland Water Fisheries

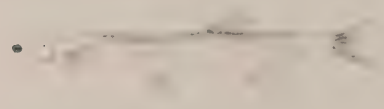
Chum salmon
Sake (Shirozake)
Oncorhynchus keta

Pond-smelt
Wakasagi
Hypomesus olidus

Rainbow trout
Nijimasu
Salmo gairdnerii irideus

Sweet fish
Ayu
Plecoglossus altivelis

White bait
Shirauo
Salangichthys microdon



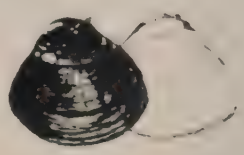
Common carp
Koi
Cyprinus carpio

Crucian carp
Funa
Carassius auratus

(Minnow)
Ugui
Tribolodon hakonensis hakonensis

Eel
Unagi
Anguilla japonica

Corbicula
Yamatoshijimi
Corbicula japonica



Shrimp
Nukaebi
Paratya compressa improvisa

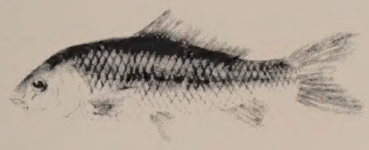
Aquatic plant
Kawanori
Prasiola japonica

4) Inland Water Cultures

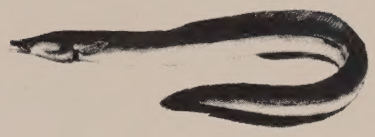
Rainbow trout
Nijimasu
Salmo gairdnerii irideus

Sweet fish
Ayu
Plecoglossus altivelis

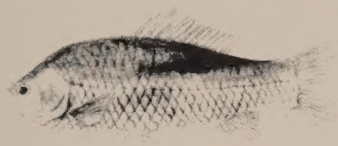
Common carp
Koi
Cyprinus carpio



Eel
Unagi
Anguilla japonica



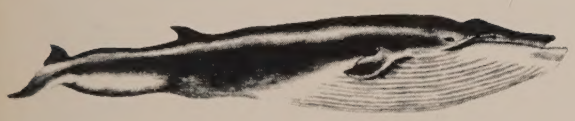
Crucian carp
Funa
Carassius auratus



Fresh-water Pearl Oyster
Ikechogai
Hyriopsis schlegeli

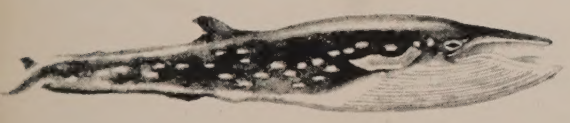
5) Whaling

Fin whale
Nagasukujira
Balaenoptera physalus

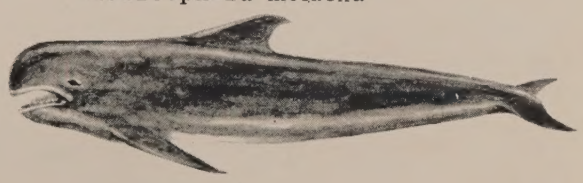


Mink whale
Koiwashikujira
Balaenoptera acutoro strata

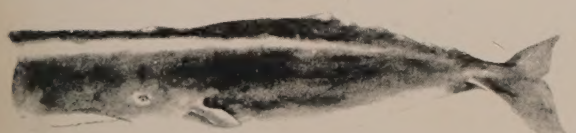
Sei whale
Iwashikujir
Balaenoptera borealis



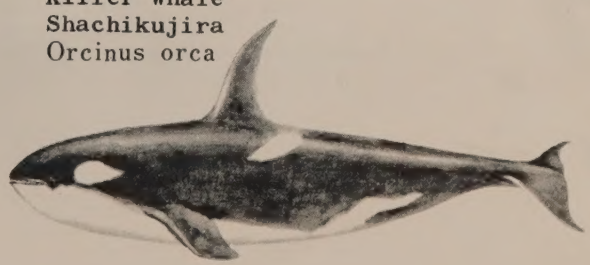
Pilot whale
Gondokujira
Globicephala melacna



Sperm whale
Makkokujira
Physeter catodon



Killer Whale
Shachikujira
Orcinus orca



Printed on March 25, 1976
Published on March 31, 1976

Edited by Statistics and Information Department, Ministry of Agriculture and Forestry
2-1,1-chome,Kasumigaseki,Chiyoda-ku,Tokyo, Japan

Published by Association of Agriculture-Forestry Statistics
Otori Building,11-14,2-chome,Meguro,Meguro-ku, Tokyo,Japan